

#4

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By:

Valerie J. Benson

Date:

4/8/02

PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re:	Patent Application of	:
	Jonathan S. Levkoff et al.	:
		: Attention:
		: Official Draftsman
Conf. No.:	6682	:
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Appln. No.:	10/020,856	:
		: Group Art Unit: 2171
Filed:	December 12, 2001	:
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For:	METHOD AND SYSTEM FOR	: Attorney Docket
	ASSIMILATION, INTEGRATION AND	: No. 10776-1U1
	DEPLOYMENT OF ARCHITECTURAL,	:
	ENGINEERING AND CONSTRUCTION	:
	INFORMATION TECHNOLOGY	:

TRANSMITTAL OF FORMAL DRAWINGS

In response to the Notice to File Missing Parts of Nonprovisional Application filed Under 37 CFR 1.53(b) *Filing Date Granted*, enclosed are sixty-nine (69) sheets of drawings, Figures 1 through 28, concerning the above-identified application.

Prompt review and approval of the enclosed Formal Drawings are respectfully requested.

Respectfully submitted,

JONATHAN S. LEVKOFF et al.

April 8, 2002
Date

By:

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
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Enclosures

10020856-121204

UCID


<u>DataBult ID</u>	<u>Filter Type</u>	<u>Product Name</u>	<u>Series</u>	<u>Description</u>	<u>Material</u>	<u>Manufacturer</u>	<u>Internet Address</u>	<u>Telephone #</u>
Microfiber Filtration Products						Johns Manville	http://www.jm.com	1.800.654.3103
(UCIDs not shown)	Liquid	Micro Strand Glass Microfiber 100 Series	100 Series	A fine diameter borosilicate (Type 475) glass microfiber in bulk form which contains no binders or sizings	Non-continuous glass filaments - glass microfibers	Johns Manville	http://www.jm.com	1.800.654.3103
	Liquid	Micro Strand Glass Microfiber 100 Series	100 Series	A fine diameter borosilicate (Type 475) glass microfiber in bulk form which contains no binders or sizings	Non-continuous glass filaments - glass microfibers	Johns Manville	http://www.jm.com	1.800.654.3103
	Liquid	Micro Strand Glass Microfiber 100 Series	100 Series	A fine diameter borosilicate (Type 475) glass microfiber in bulk form which contains no binders or sizings	Non-continuous glass filaments - glass microfibers	Johns Manville	http://www.jm.com	1.800.654.3103
	Liquid	Micro Strand Glass Microfiber 100 Series	100 Series	A fine diameter borosilicate (Type 475) glass microfiber in bulk form which contains no binders or sizings	Non-continuous glass filaments - glass microfibers	Johns Manville	http://www.jm.com	1.800.654.3103
	Liquid	Micro Strand Glass Microfiber 100 Series	100 Series	A fine diameter borosilicate (Type 475) glass microfiber in bulk form which contains no binders or sizings	Non-continuous glass filaments - glass microfibers	Johns Manville	http://www.jm.com	1.800.654.3103
	Liquid	Micro Strand Glass Microfiber 100 Series	100 Series	A fine diameter borosilicate (Type 475) glass microfiber in bulk form which contains no binders or sizings	Non-continuous glass filaments - glass microfibers	Johns Manville	http://www.jm.com	1.800.654.3103
	Liquid	Micro Strand Glass Microfiber 100 Series	100 Series	A fine diameter borosilicate (Type 475) glass microfiber in bulk form which contains no binders or sizings	Non-continuous glass filaments - glass microfibers	Johns Manville	http://www.jm.com	1.800.654.3103
	Liquid	Micro Strand Glass Microfiber 100 Series	100 Series	A fine diameter borosilicate (Type 475) glass microfiber in bulk form which contains no binders or sizings	Non-continuous glass filaments - glass microfibers	Johns Manville	http://www.jm.com	1.800.654.3103
	Liquid	Micro Strand Glass Microfiber 100 Series	100 Series	A fine diameter borosilicate (Type 475) glass microfiber in bulk form which contains no binders or sizings	Non-continuous glass filaments - glass microfibers	Johns Manville	http://www.jm.com	1.800.654.3103
	Liquid	Micro Strand Glass Microfiber 100 Series	100 Series	A fine diameter borosilicate (Type 475) glass microfiber in bulk form which contains no binders or sizings	Non-continuous glass filaments - glass microfibers	Johns Manville	http://www.jm.com	1.800.654.3103
	Liquid	Micro Strand Glass Microfiber 100 Series	100 Series	A fine diameter borosilicate (Type 475) glass microfiber in bulk form which contains no binders or sizings	Non-continuous glass filaments - glass microfibers	Johns Manville	http://www.jm.com	1.800.654.3103
	Liquid	Micro Strand Glass Microfiber 100 Series	100 Series	A fine diameter borosilicate (Type 475) glass microfiber in bulk form which contains no binders or sizings	Non-continuous glass filaments - glass microfibers	Johns Manville	http://www.jm.com	1.800.654.3103
	Liquid	Micro Strand Glass Microfiber 200 Series	200 Series	A fine diameter borosilicate (Type 253) glass microfiber in bulk form which contains no binders or sizings	Non-continuous glass filaments - glass microfibers	Johns Manville	http://www.jm.com	1.800.654.3103
	Liquid	Micro Strand Glass Microfiber 200 Series	200 Series	A fine diameter borosilicate (Type 253) glass microfiber in bulk form which contains no binders or sizings	Non-continuous glass filaments - glass microfibers	Johns Manville	http://www.jm.com	1.800.654.3103
	Liquid	Micro Strand Glass Microfiber 200 Series	200 Series	A fine diameter borosilicate (Type 253) glass microfiber in bulk form which contains no binders or sizings	Non-continuous glass filaments - glass microfibers	Johns Manville	http://www.jm.com	1.800.654.3103

FIG. 1

Johns-Manville Micro Fibers Filtration

Micro Strand Glass Microfiber 100 Series
 Micro Strand Glass Microfiber 200 Series

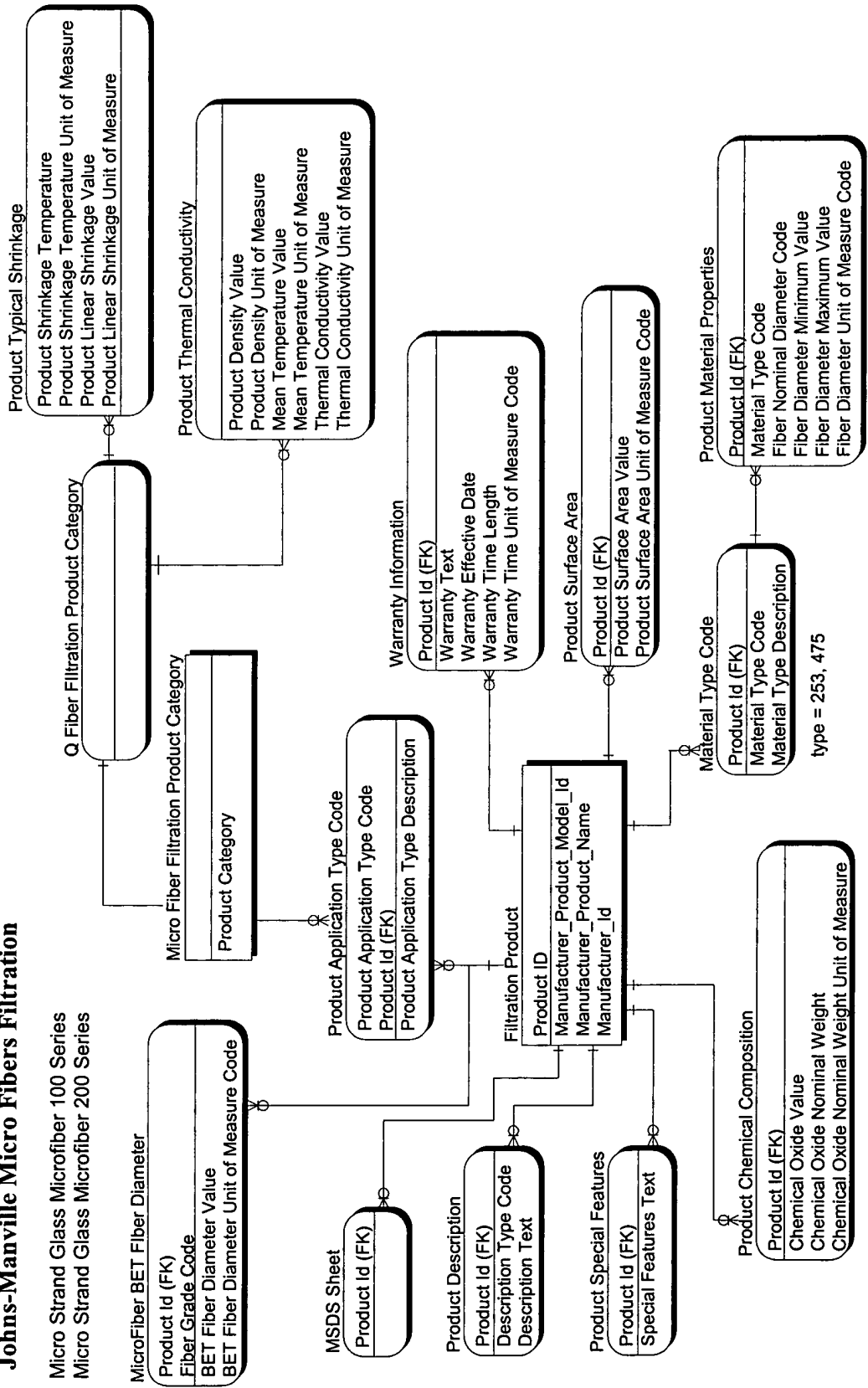


FIG. 2

UCID

Fig. 3A-1

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27 </warranty_intro>
28 <surface_area value="" measure="" tag_id="" />
29 </material_tag_id="">
30 <material_type tag_id=""> </material_type>
31 <material_description tag_id=""> </material_description>
32 <material_properties tag_id="">
33 <grade value="" tag_id="" />
34 <nominal_diameter_type value="" tag_id="" />
35 <diameter_min_val value="" tag_id="" />
36 <diameter_max_val value="" tag_id="" />
37 <diameter_measurement_unit tag_id=""> </diameter_measurement_unit>
38 </material_properties>
39 </material>
40 <specifications tag_id="">
41 <shrinkage tag_id="">
42 <shrinkage_temp value="" tag_id="" />
43 <shrinkage_temp_measurement_unit tag_id=""> </shrinkage_temp_measurement_unit>
44 <linear_shrinkage value="" tag_id="" />
45 <linear_shrinkage_measurement_unit tag_id=""> </linear_shrinkage_measurement_unit>
46 </shrinkage>
47 <thermal tag_id="">
48 <product_density value="" tag_id="" />
49 <product_density_measurement_unit tag_id=""> </product_density_measurement_unit>
50 <mean_temperature value="" tag_id="" />
51 <mean_temperature_measurement_unit tag_id=""> </mean_temperature_measurement_unit>
52 <thermal_conductivity value="" tag_id="" />
53 <thermal_conductivity_measurement_unit tag_id=""> </thermal_conductivity_measurement_unit>
54 </thermal>
55 </specifications>
56 </product>
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Fig. 3A-2

File: F:\XML-firstcut\johns.manville.filtration.rev1.00.00.dtd 11/30/01, 10:11:49PM

```
1 <ELEMENT category EMPTY >
2 <ATTLIST category id CDATA #REQUIRED >
3 <ATTLIST category tag_id CDATA #REQUIRED >
4
5 <ELEMENT chemical_composition ( chemical_oxide_value, chemical_oxide_nominal_weight, chemical_oxide_nominal_weight_measurement_unit ) >
6 <ATTLIST chemical_composition tag_id CDATA #REQUIRED >
7
8 <ELEMENT chemical_oxide_nominal_weight EMPTY >
9 <ATTLIST chemical_oxide_nominal_weight tag_id CDATA #REQUIRED >
10
11 <ELEMENT chemical_oxide_nominal_weight_measurement_unit EMPTY >
12 <ATTLIST chemical_oxide_nominal_weight_measurement_unit tag_id CDATA #REQUIRED >
13
14 <ELEMENT chemical_oxide_value EMPTY >
15 <ATTLIST chemical_oxide_value tag_id CDATA #REQUIRED >
16
17 <ELEMENT description ( manufacturer, category, subcategory, description_type ) >
18 <ATTLIST description tag_id CDATA #REQUIRED >
19
20 <ELEMENT description_text EMPTY >
21 <ATTLIST description_text tag_id CDATA #REQUIRED >
22
23 <ELEMENT description_type ( description_text ) >
24 <ATTLIST description_type tag_id CDATA #REQUIRED >
25 <ATTLIST description_type value CDATA #REQUIRED >
```

Fig. 3B-1

```
26
27 <ELEMENT diameter_max_val EMPTY >
28 <!ATTLIST diameter_max_val tag_id CDATA #REQUIRED >
29 <!ATTLIST diameter_max_val value CDATA #REQUIRED >
30
31 <ELEMENT diameter_measurement_unit EMPTY >
32 <!ATTLIST diameter_measurement_unit tag_id CDATA #REQUIRED >
33
34 <ELEMENT diameter_min_val EMPTY >
35 <!ATTLIST diameter_min_val tag_id CDATA #REQUIRED >
36 <!ATTLIST diameter_min_val value CDATA #REQUIRED >
37
38 <ELEMENT duration EMPTY >
39 <!ATTLIST duration measure CDATA #REQUIRED >
40 <!ATTLIST duration tag_id CDATA #REQUIRED >
41 <!ATTLIST duration value CDATA #REQUIRED >
42
43 <ELEMENT effective_date EMPTY >
44 <!ATTLIST effective_date tag_id CDATA #REQUIRED >
45 <!ATTLIST effective_date value CDATA #REQUIRED >
46
47 <ELEMENT grade EMPTY >
48 <!ATTLIST grade tag_id CDATA #REQUIRED >
49 <ELEMENT category EMPTY >
50 <!ATTLIST category id CDATA #REQUIRED >
51 <!ATTLIST category tag_id CDATA #REQUIRED >
52
53 <ELEMENT chemical_composition ( chemical_oxide_value, chemical_oxide_nominal_weight, chemical_oxide_nominal_weight_measurement_unit ) >
54 <!ATTLIST chemical_composition tag_id CDATA #REQUIRED >
55
56 <ELEMENT chemical_oxide_nominal_weight EMPTY >
```

Fig. 3B-2

File: F:\XML-first\johns.manville.filtration.rev1.00.00.dtd 11/30/01, 10:11:49PM

```
57 <!ATTLIST chemical_oxide_nominal_weight tag_id CDATA #REQUIRED >
58
59 <ELEMENT chemical_oxide_nominal_weight_measurement_unit EMPTY >
60 <!ATTLIST chemical_oxide_nominal_weight_measurement_unit tag_id CDATA #REQUIRED >
61
62 <ELEMENT chemical_oxide_value EMPTY >
63 <!ATTLIST chemical_oxide_value tag_id CDATA #REQUIRED >
64
65 <ELEMENT description ( manufacturer, category, subcategory, description_type ) >
66 <!ATTLIST description tag_id CDATA #REQUIRED >
67
68 <ELEMENT description_text EMPTY >
69 <!ATTLIST description_text tag_id CDATA #REQUIRED >
70
71 <ELEMENT description_type ( description_text ) >
72 <!ATTLIST description_type tag_id CDATA #REQUIRED >
73 <!ATTLIST description_type value CDATA #REQUIRED >
74
75 <ELEMENT diameter_max_val EMPTY >
76 <!ATTLIST diameter_max_val tag_id CDATA #REQUIRED >
77 <!ATTLIST diameter_max_val value CDATA #REQUIRED >
78
79 <ELEMENT diameter_measurement_unit EMPTY >
80 <!ATTLIST diameter_measurement_unit tag_id CDATA #REQUIRED >
81
82 <ELEMENT diameter_min_val EMPTY >
83 <!ATTLIST diameter_min_val tag_id CDATA #REQUIRED >
84 <!ATTLIST diameter_min_val value CDATA #REQUIRED >
```

Fig. 3C-1

```
85 <ELEMENT duration EMPTY >  
86 <ATTLIST duration measure CDATA #REQUIRED >  
87 <ATTLIST duration tag_id CDATA #REQUIRED >  
88 <ATTLIST duration value CDATA #REQUIRED >  
89 <ATTLIST duration value CDATA #REQUIRED >  
90  
91 <ELEMENT effective_data EMPTY >  
92 <ATTLIST effective_data tag_id CDATA #REQUIRED >  
93 <ATTLIST effective_data value CDATA #REQUIRED >  
94  
95 <ELEMENT grade EMPTY >  
96 <ATTLIST grade tag_id CDATA #REQUIRED >  
97 <ATTLIST grade value CDATA #REQUIRED >  
98  
99 <ELEMENT linear_shrinkage EMPTY >  
100 <ATTLIST linear_shrinkage tag_id CDATA #REQUIRED >  
101 <ATTLIST linear_shrinkage value CDATA #REQUIRED >  
102  
103 <ELEMENT linear_shrinkage_measurement_unit EMPTY >  
104 <ATTLIST linear_shrinkage_measurement_unit tag_id CDATA #REQUIRED >  
105  
106 <ELEMENT manufacturer ( product_id, product_name ) >  
107 <ATTLIST manufacturer id CDATA #REQUIRED >  
108 <ATTLIST manufacturer tag_id CDATA #REQUIRED >  
109  
110 <ELEMENT material ( material_type, material_description, material_properties ) >  
111 <ATTLIST material tag_id CDATA #REQUIRED >  
112
```

Fig. 3C-2

File: F:\XML-firstcut\johns.marville.filtration.rev1.00.00.dtd 11/30/01, 10:11:49PM

```
113 <ELEMENT material_description EMPTY >  
114 <!ATTLIST material_description tag_id CDATA #REQUIRED >  
115  
116 <ELEMENT material_properties ( grade, nominal_diameter_type, diameter_min_val, diameter_max_val, diameter_measurement_unit ) >  
117 <!ATTLIST material_properties tag_id CDATA #REQUIRED >  
118  
119 <ELEMENT material_type EMPTY >  
120 <!ATTLIST material_type tag_id CDATA #REQUIRED >  
121  
122 <ELEMENT mean_temperature EMPTY >  
123 <!ATTLIST mean_temperature tag_id CDATA #REQUIRED >  
124 <!ATTLIST mean_temperature value CDATA #REQUIRED >  
125  
126 <ELEMENT mean_temperature_measurement_unit EMPTY >  
127 <!ATTLIST mean_temperature_measurement_unit tag_id CDATA #REQUIRED >  
128  
129 <ELEMENT msds_data EMPTY >  
130 <!ATTLIST msds_data tag_id CDATA #REQUIRED >  
131  
132 <ELEMENT nominal_diameter_type EMPTY >  
133 <!ATTLIST nominal_diameter_type tag_id CDATA #REQUIRED >  
134 <!ATTLIST nominal_diameter_type value CDATA #REQUIRED >  
135  
136 <ELEMENT product ( description, uses, chemical_composition, special_features, msds_data, warranty_info, surface_area, material, specifications ) >  
137 <!ATTLIST product id CDATA #REQUIRED >  
138 <!ATTLIST product tag_id CDATA #REQUIRED >
```

Fig. 3D-1

Fig. 3D-2

File: F:\XML-first\johns.manville.filtration.rev1.00.00.dtd 11/30/01, 10:11:49PM

```
169
170 <ELEMENT subcategory EMPTY >
171 <!ATTLIST subcategory id CDATA #REQUIRED >
172 <!ATTLIST subcategory tag_id CDATA #REQUIRED >
173
174 <ELEMENT surface_area EMPTY >
175 <!ATTLIST surface_area measure CDATA #REQUIRED >
176 <!ATTLIST surface_area tag_id CDATA #REQUIRED >
177 <!ATTLIST surface_area value CDATA #REQUIRED >
178
179 <ELEMENT thermal ( product_density, product_density_measurement_unit, mean_temperature, mean_temperature_measurement_unit, thermal_conductivity, thermal_conductivity_measurement_unit ) >
180 <!ATTLIST thermal tag_id CDATA #REQUIRED >
181
182 <ELEMENT thermal_conductivity EMPTY >
183 <!ATTLIST thermal_conductivity tag_id CDATA #REQUIRED >
184 <!ATTLIST thermal_conductivity value CDATA #REQUIRED >
185
186 <ELEMENT thermal_conductivity_measurement_unit EMPTY >
187 <!ATTLIST thermal_conductivity_measurement_unit tag_id CDATA #REQUIRED >
188
189 <ELEMENT usage_description EMPTY >
190 <!ATTLIST usage_description tag_id CDATA #REQUIRED >
191
192 <ELEMENT uses ( usage_description ) >
193 <!ATTLIST uses tag_id CDATA #REQUIRED >
194
195 <ELEMENT warranty_info ( warranty_text, effective_date, duration ) >
196 <!ATTLIST warranty_info tag_id CDATA #REQUIRED >
197
198 <ELEMENT warranty_text EMPTY >
199 <!ATTLIST warranty_text tag_id CDATA #REQUIRED >
```

Fig. 3E

1	A		B		C		D		E		F		G	
	<u>DataBuilt ID</u> <u>(Item Number)</u>		<u>Filter Type</u>		<u>Product Name</u>		<u>Product Series</u>		<u>Product Description</u>		<u>Material</u>		<u>Filtration Grade</u>	
3	(Not Shown)		Air				Delta-Aire							
4														
5			Air		Delta-Aire Filtration Products		DA-SP - Self Pleat Media		Self-Pleat Media		{SP - Class 2 glass scrim} or {B2 - Class 2 non-woven polyester or nylon		DA-30-SP	
6			Air		Delta-Aire Filtration Products		DA-SP - Self Pleat Media		Self-Pleat Media		{SP - Class 2 glass scrim} or {B2 - Class 2 non-woven polyester or nylon		DA-40-SP	
7			Air		Delta-Aire Filtration Products		DA-SP - Self Pleat Media		Self-Pleat Media		{SP - Class 2 glass scrim} or {B2 - Class 2 non-woven polyester or nylon		DA-50-SP	
8			Air		Delta-Aire Filtration Products		DA-SP - Self Pleat Media		Self-Pleat Media		{SP - Class 2 glass scrim} or {B2 - Class 2 non-woven polyester or nylon		DA-60-SP	
9			Air		Delta-Aire Filtration Products		DPG Series - Differential Pressure Glass		Fiber glass air filter media		B2 - Class 2 non-woven polyester		DPG-82 B2	
10			Air		Delta-Aire Filtration Products		DPG Series - Differential Pressure Glass		Fiber glass air filter media		B2 - Class 2 non-woven polyester		DPG-95 B2	

FIG. 4A

	H	I	J	K	L	M
	Media Color	Thickness - in. (mm)	Weight - gm/ft ² (gm/m ²)	Air Permeability - in. W.G. (Pa)	Initial Flat Sheet Particle Efficiency - %	Filtration Application Atmospheric Efficiency - %
1	Choice of Amber, Orange, Purple, Lime Green, Brown, Yellow, (Color coded to identify efficiency ranges)					
3						
4						
5	Amber	0.16 (4.1)	11.0 (118.4)	0.03 (7.5)	4 - 8	30 -35
6	Amber	0.16 (4.1)	11.3 (121.6)	0.04 (10.0)	8-12	40-45
7	Amber	0.16 (4.1)	11.8 (127.0)	0.06 (14.9)	12-16	50-55
8	Orange	0.16 (4.1)	14.0 (150.7)	0.08 (19.9)	18-23	60-65
9	Purple	0.15 (3.8)	3.2 (34.4)	0.13 (32.4)	56-66	80-85
10	Lime Green	0.15 (3.8)	3.5 (37.7)	0.27 (67)	75-85	90-95

FIG. 4B

	O	P	Q	R	S	T
	Certifications	Roll Width - in. (cm)	Roll Length - in. Ft. (lin. M)	Roll Cores - Chipboard ID - in. (cm)	Backings & Maximum Recommended Working Air Temperature - Degrees Fahrenheit (Degrees Celsius)	Produced As
1						
3						
4						
5	ISO-9002 Certified	12-25 (30.5-63.5)	500 (152)	2 (5.1)	250 (121) Note: this applies to {SP - Class 2 glass scrim} and {B2 - Class 2 non-woven polyester or nylon}	Roll of DA-SP series media bonded to a glass mat backing that is self-supporting when pleated and heat set
6	ISO-9002 Certified	12-25 (30.5-63.5)	500 (152)	2 (5.1)	250 (121) Note: this applies to {SP - Class 2 glass scrim} and {B2 - Class 2 non-woven polyester or nylon}	Roll of DA-SP series media bonded to a glass mat backing that is self-supporting when pleated and heat set
7	ISO-9002 Certified	12-25 (30.5-63.5)	500 (152)	2 (5.1)	250 (121) Note: this applies to {SP - Class 2 glass scrim} and {B2 - Class 2 non-woven polyester or nylon}	Roll of DA-SP series media bonded to a glass mat backing that is self-supporting when pleated and heat set
8	ISO-9002 Certified	12-25 (30.5-63.5)	500 (152)	2 (5.1)	250 (121) Note: this applies to {SP - Class 2 glass scrim} and {B2 - Class 2 non-woven polyester or nylon}	Roll of DA-SP series media bonded to a glass mat backing that is self-supporting when pleated and heat set
9	ISO-9002 Certified	12-72 (30-183)	1000 (305)	2 (5.1)	250 (121) Note: This applies to {B2 - Class 2 non-woven polyester}	Roll form, color coded for identification of efficiency ranges
10	ISO-9002 Certified	12-72 (30-183)	1000 (305)	2 (5.1)	250 (121) Note: This applies to {B2 - Class 2 non-woven polyester}	Roll form, color coded for identification of efficiency ranges

FIG. 4C

U	V	W	X	Y	Z	AA	AB
<u>Special Features</u>	<u>Specific Features Available Upon Request</u>	<u>Uses</u>	<u>Ratings</u>	<u>Manufacturer Information</u>	<u>Telephone #</u>	<u>Internet Address</u>	<u>Hazard Label</u>
Neither the media binder nor Fiber Glass support microbial growth	Custom Widths and Lengths	Panel Filters, Filters for HVAC systems, Paint Spray Booths, FDA applications, Clean Rooms	Filter Media, by itself, will meet the UL Class rating when tested in accordance with UL900 "Standard for Air Filter Units"	Johns Manville	303-978-2000	http://www.jm.com	FBG-003
Neither the media binder nor Fiber Glass support microbial growth	Custom Widths and Lengths	Panel Filters, Filters for HVAC systems, Paint Spray Booths, FDA applications, Clean Rooms	Filter Media, by itself, will meet the UL Class rating when tested in accordance with UL900 "Standard for Air Filter Units"	Johns Manville	303-978-2000	http://www.jm.com	FBG-003
Neither the media binder nor Fiber Glass support microbial growth	Custom Widths and Lengths	Panel Filters, Filters for HVAC systems, Paint Spray Booths, FDA applications, Clean Rooms	Filter Media, by itself, will meet the UL Class rating when tested in accordance with UL900 "Standard for Air Filter Units"	Johns Manville	303-978-2000	http://www.jm.com	FBG-003
Neither the media binder nor Fiber Glass support microbial growth	Custom Widths and Lengths	Panel Filters, Filters for HVAC systems, Paint Spray Booths, FDA applications, Clean Rooms	Filter Media, by itself, will meet the UL Class rating when tested in accordance with UL900 "Standard for Air Filter Units"	Johns Manville	303-978-2000	http://www.jm.com	FBG-003
Neither the media binder nor Fiber Glass support microbial growth	Custom Widths and Lengths; additional grades are available to meet specific applications	Panel Filters, Filters for HVAC systems, Paint Spray Booths, FDA applications, Clean Rooms	Filter Media, by itself, will meet the UL Class rating when tested in accordance with UL900 "Standard for Air Filter Units"	Johns Manville	303-978-2000	http://www.jm.com	FBG-003
Neither the media binder nor Fiber Glass support microbial growth	Custom Widths and Lengths; additional grades are available to meet specific applications	Panel Filters, Filters for HVAC systems, Paint Spray Booths, FDA applications, Clean Rooms	Filter Media, by itself, will meet the UL Class rating when tested in accordance with UL900 "Standard for Air Filter Units"	Johns Manville	303-978-2000	http://www.jm.com	FBG-003

FIG. 4D

Category - Air Filtration
Johns-Manville Delta-Aire Air Filtration

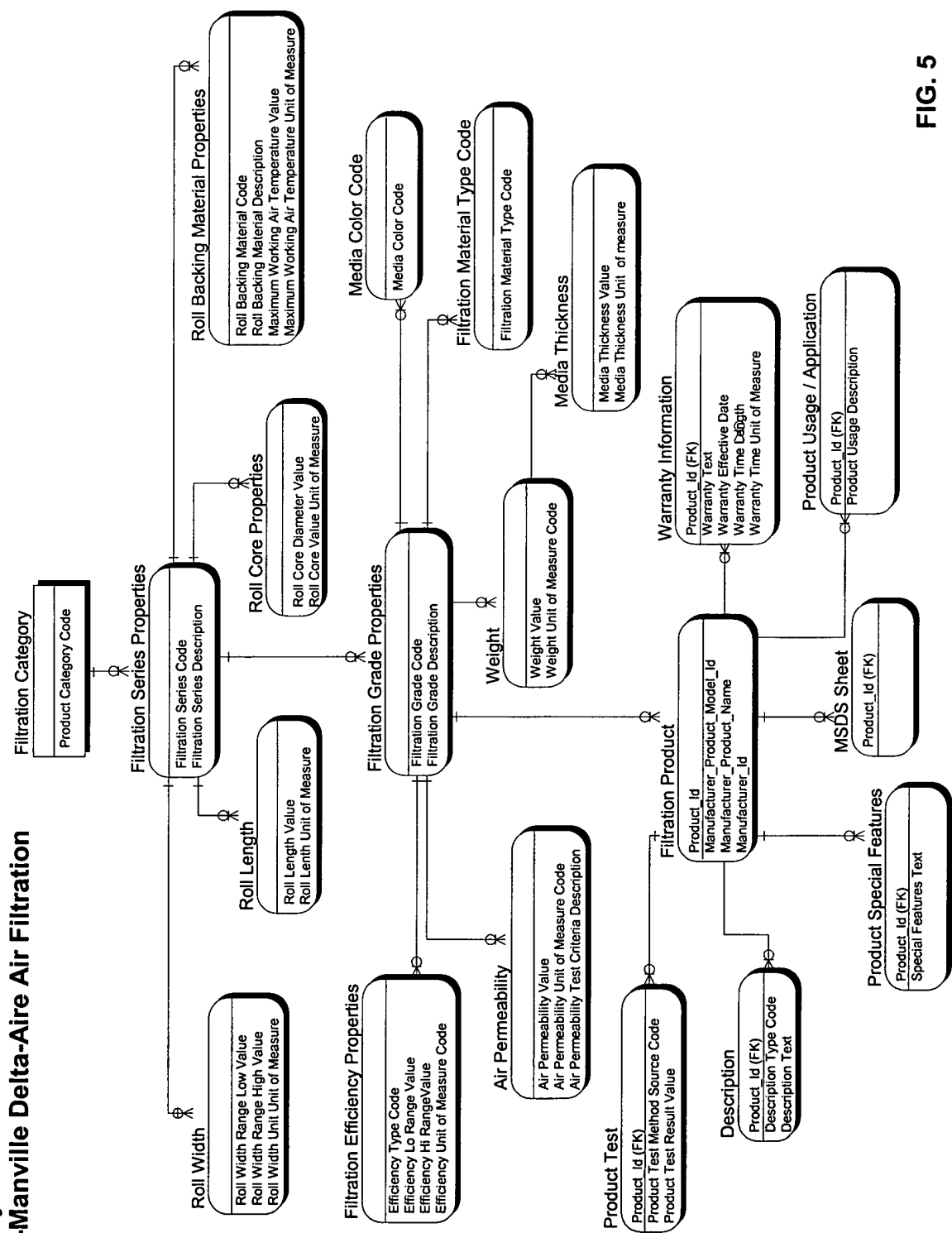


FIG. 5

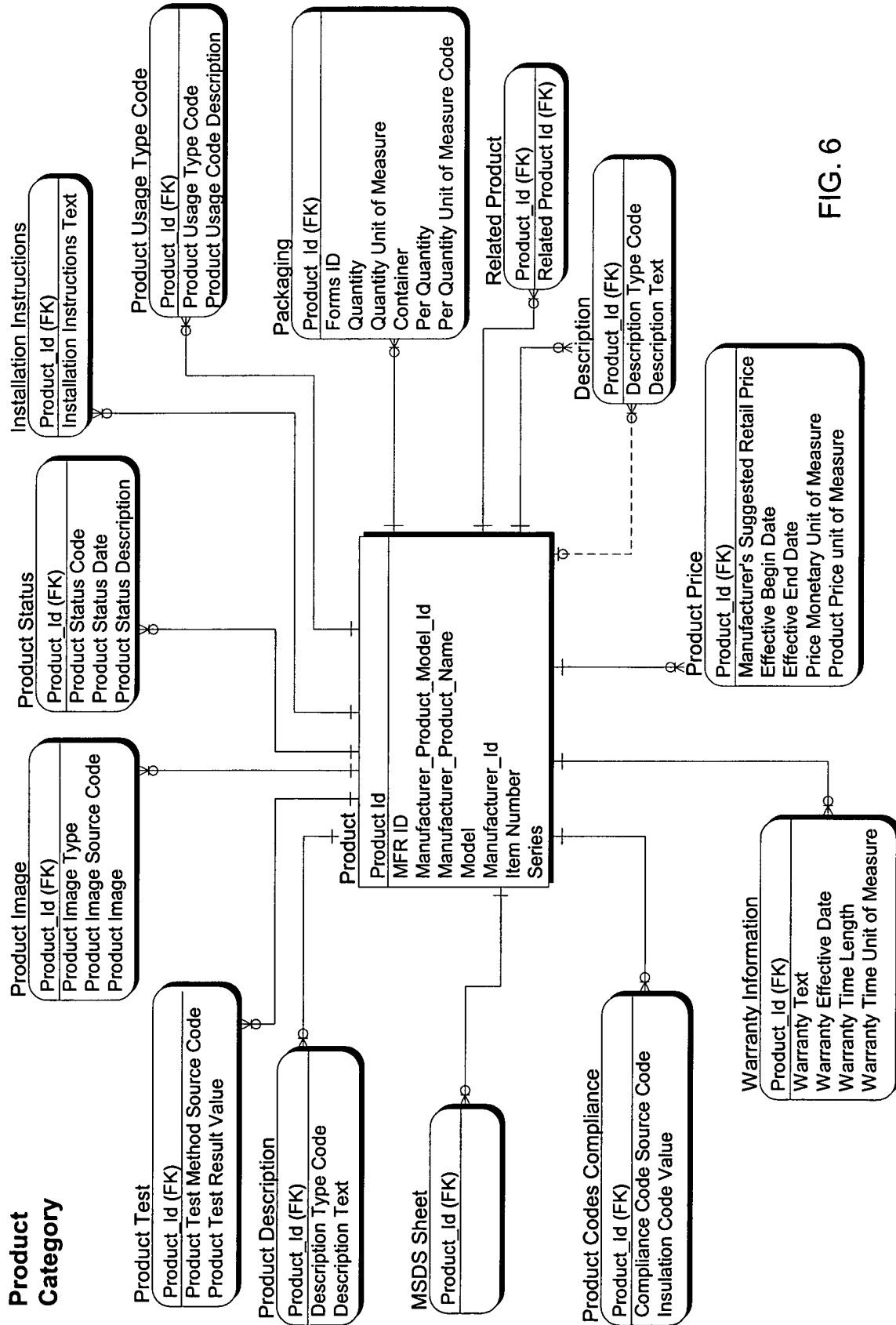


FIG. 6

FIG. 7A

LOGO

LOGO

Logout

Your open project is:
Indigo Run
To view project profile,
click on project name.

Home / Corporate / Careers / Site Map / Contact Us

Language

U.S. English

Project Notebook

Search

Toolbox

Reports

Settings

Help

Return to Report Builder

Indigo Run Reports

Product Quantity

Product Name	Manufacturer	Product Description	DataBull Number	Quantity	MSRP
<input type="checkbox"/> 1. Wood Window	Pella	Double-Hung	123A23B7678CD7825FAC218	5	US\$ 160
<input type="checkbox"/> 2. Fluorescent Light	Lithonia	2' x 4' Recessed	56324120ABA4646221GEF215	10	US\$ 50
<input type="checkbox"/> 3. Toilet	American Standard	Floor Mount	35689ADF895213005B3EF69	3	US\$ 120
<input type="checkbox"/> 4. Wood Connector	Simpson	Wood-to-Wood	789601D89ADE19708584CDE	4	US\$ 5
<input type="checkbox"/> 5. Modular Brick	Triangle	Standard Red	7678CD7825FAC218123A23B	7	US\$ 1,500
<input type="checkbox"/> 6. Gypsum Sheathing	National Gypsum	4' x 8' Standard	BCD7825FAC218123A23B767	1	US\$ 200
<input type="checkbox"/> 7. Elevator	Otis	Pneumatic Piston	23B7678CD7825FAC218123A	1	US\$ 25,000
<input type="checkbox"/> 8. Cement Mix	LaFarge	Standard White	5FAC218123A23B7678CD762	1	US\$ 750
<input type="checkbox"/> 9. Kitchen Faucet	Delta	Traditional	CD7825FAC218123A23B7678	2	US\$ 90
<input type="checkbox"/> 10. Wood Door	Weyerhaeuser	5-Panel Red Oak	78CD7825FAC218123A23B78	4	US\$ 180

Print

Export

Compare Products

Edit Categories

Edit Templates

Return to Report Builder

FIG. 7B

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FIG. 7C

④ Datacube, Inc. - The data and insight "The Global AEC Information Company" are regarded as invaluable.

FIG 7D

Home Corporate Careers Site Maps Contact Us Logout

Language U.S. English

Logout

Your open project is: **None**

To view project details click on project name.

Company

My User Profile

My Projects

My Products

Project Notebook

Search

Toolbox

Reports

Settings

Help

Project Preferences

Specification System: Master Format

Project Details

Business Sector: Choices

☒ Commercial
☐ Residential
☐ Infrastructure

Preliminary Budget: US \$2,000,000

Preliminary Size: 55,000 square feet

Preliminary Completion Date: 12/10/2002

Project Type: Developers

Primary Function: Healthcare

Building Type: New Construction

Secondary Function: Surgeal

Project Graphic Symbolology

☒ Application File Name Last Modified Date User Name
☐ DataBuilt Default
☐
☐
☐
☐

Upload New Symbolology

Finish

After project profile, team and related companies are defined, click Finish to save.

FIG. 7E

Home / Corporate / Careers / Site Map / Contact Us / Logout

Language U.S. English

[Project Notebook](#)
[Search](#)
[Toolbox](#)
[Reports](#)
[Settings](#)
[Help](#)

PROJECT ADMINISTRATOR PRIVILEGES ENABLED

Please edit the project profile, project team, and related companies.

[Edit Project Profile](#)
[Edit Project Team](#)
[Edit Project Related Companies](#)

Project Information

☒ Required *
☐ Confidential

Date Created* 10/11/2001

Project Name* Indigo Run

Project Number* 3509

Country* USA

Postal Code* 29910

Address* 1476 Fording Island Rd

State/Province/Canton* South Carolina

City* Bluffton

Project Description

This is my project description.

Project e-mail Address project@indigorun.com

Phone Number 843-836-2166

Fax Number 843-836-2039

Project Web site Address www.indigorun.com

Logout

Your open project is:

Indigo Run

To view project profile, click on project name.

Company

My User Profile

My Projects

My Projects

FIG. 7F

Original Project: 3559 Indigo Run, Hilton Head Island, SC 29910 USA, 10/11/01

All historical information associated with the original project will be updated and associated with your User ID and new project ID. All costs and manufactured products will be returned for compliance and availability. All information must be validated and updated as necessary by project manager.

Confidential

Data Created:

Project Name:

Project Number:

Country

Postal Code

Address

State/Provincial
Canton

City

Project Description

here.

Project

e-mail Address:

Phone Number

Fax Number

Project

Required Changes


 **Global AEC Information Company*** are registered service marks.

FIG. 7G

FIG. 7H

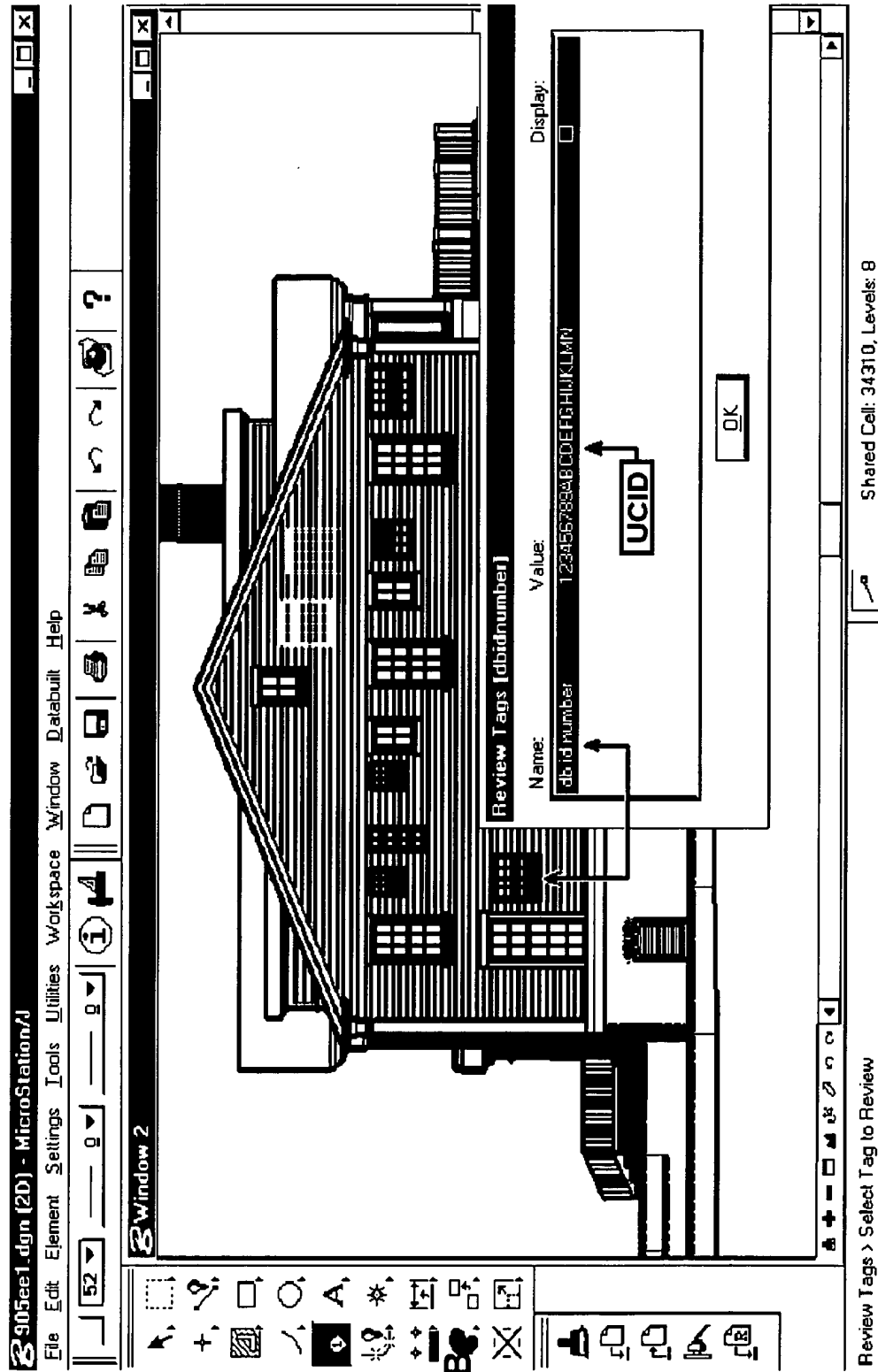


FIG. 8A

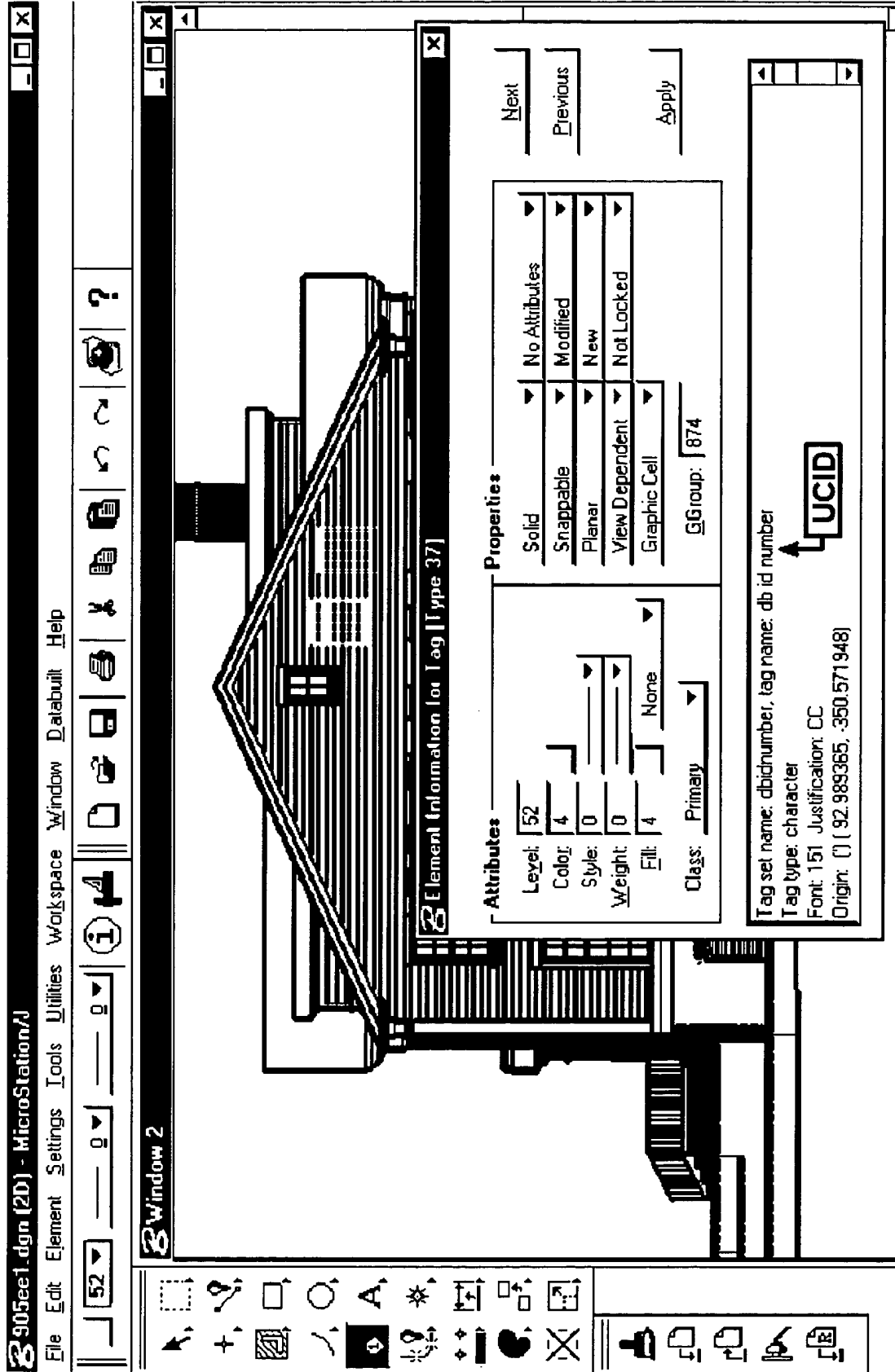


FIG. 8B

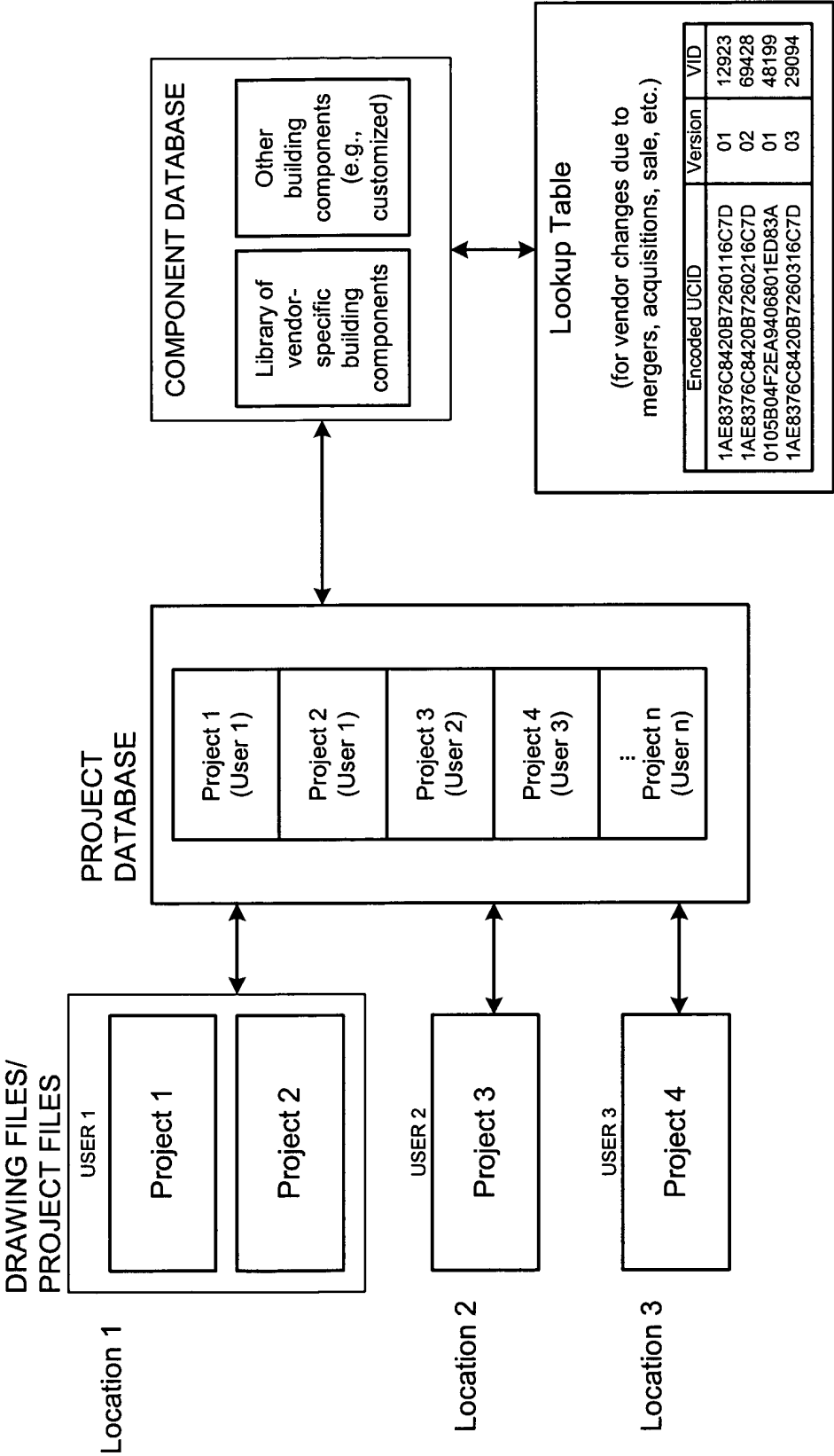


FIG. 9

10020856 . 124201

	Manufacturer	Product Name	VID		GCID						External Object Identifier (EOI)
			DataBuilt Internal ID		Barcode						
			Mfr ID	Product ID	Mfr ID	Product ID	Version	Checksum			
1	General Electric	3-inch Downlight	4992408	354622628234	4C2D98	529127E18A	00	73A5F		1.5.62.5.1.6.2.64.13.8.42.1.5.6.5	
2	Lithonia	Recessed Accent	842562	354622628234	0CDB42	529127E18A	00	F62D8		1.5.62.5.1.6.2.64.13.8.39.1.5.5.4	
3	Concord Lighting	Recessed Spot	3467626	354622628234	34E96A	529127E18A	01	A5162		1.5.62.5.1.6.2.64.13.8.42.1.5.6.5	
4	Lightolier	In-Ceiling Spot	14551	12314819810	0038D7	2DE053CE2	00	251E5		1.5.62.5.1.6.2.64.13.0.42.0.7.2.0	
5	Lightolier	Recessed Hi-Hat	14551	29348577299	0038D7	06D54FC013	00	82335		1.5.62.5.1.6.2.64.13.8.42.1.5.6.9	
6	Champion Lighting	3 Inch Spot	241563	99274902850	03AF9B	171D3ECD42	00	D9391		1.5.62.5.1.6.2.64.13.6.42.1.5.6.9	
				unencoded UCID		encoded UCID					

encoded UCID

unencoded UCID

FIG. 10

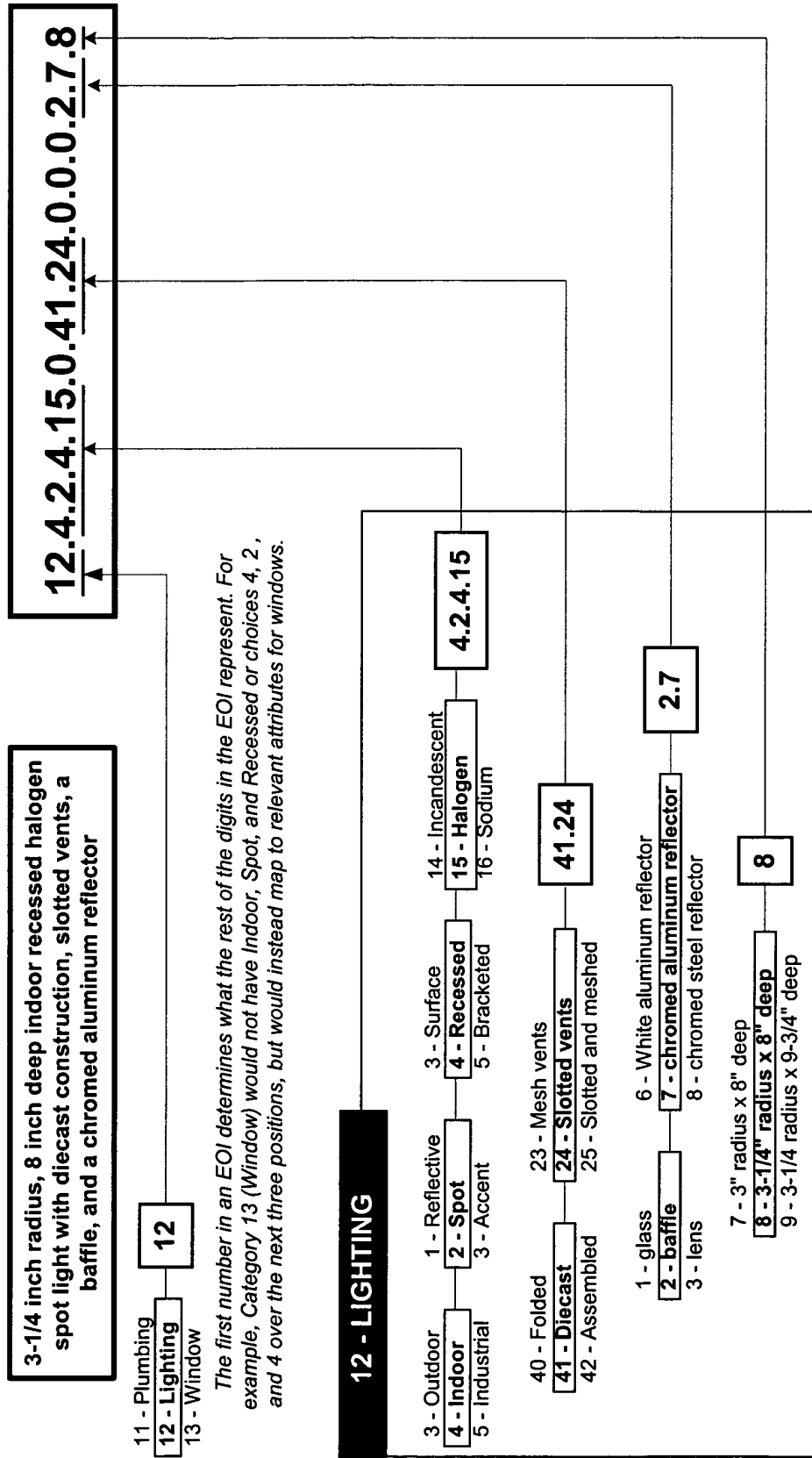


FIG. 11

UCID

Logout

Your open project is:

Indigo Run

Company

My User Profile

My Projects

Favorites

UCID

Home / Corporate / Careers / Site Map / Contact Us

Language

U.S. English

Settings

Reports

Toolbox

Search

Project Notebook

Products

Manufacturers

Suppliers

Codes

Select a category and type in a keyword or keywords into the search field and click Go.

Products **Manufacturers** **Suppliers** **Codes** **Regulatory Agencies** **News**

Keyword Search

Detailed Search

Help Me Search
Product Directory
Search Preferences

Result Display

Click arrow to expand the result display options

View Details

Remove

View Details

Remove

View Details

Remove

Manufacturer Pella

Anderson

Marvin

DataBuilt Identification Number

123A23B7678CD7825FAC218

56324120AB4546221CEF215

36689ADF695213005B3EF69

Product Type

Double Hung Window

Double Hung Window

Double Hung Window

2D/3D CAD Graphics

Manufacturer Model Number

PL749820

AD57984563

MV2246881

MSRP

\$350

\$300

\$325

Dimensions

20" x 30"

20" x 30"

20" x 30"

Warranty

10 years

5 years

7 years

Engineering Specifications

Here are the engineering specs.

Here are the engineering specs.

Here are the engineering specs.

Performance Criteria

Here is the performance criteria.

Here is the performance criteria.

Here is the performance criteria.

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FIG. 12

FIG. 13

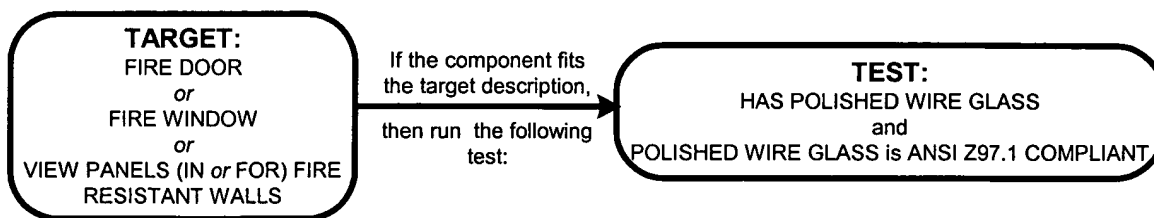


FIG. 14

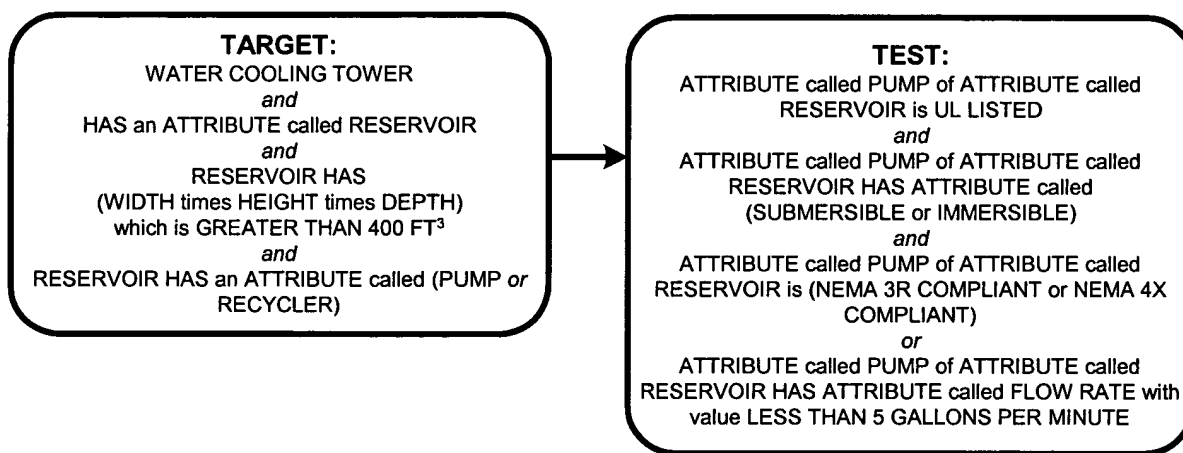


FIG. 15

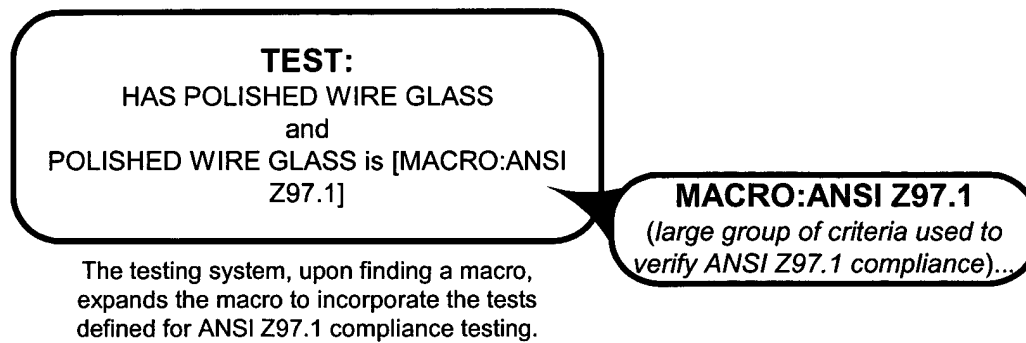


FIG. 16

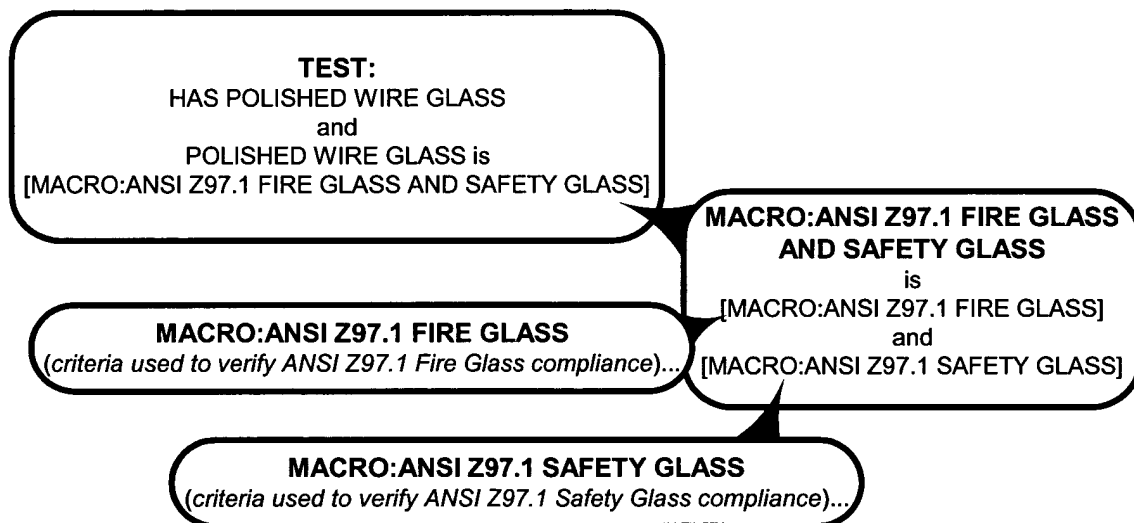


FIG. 17

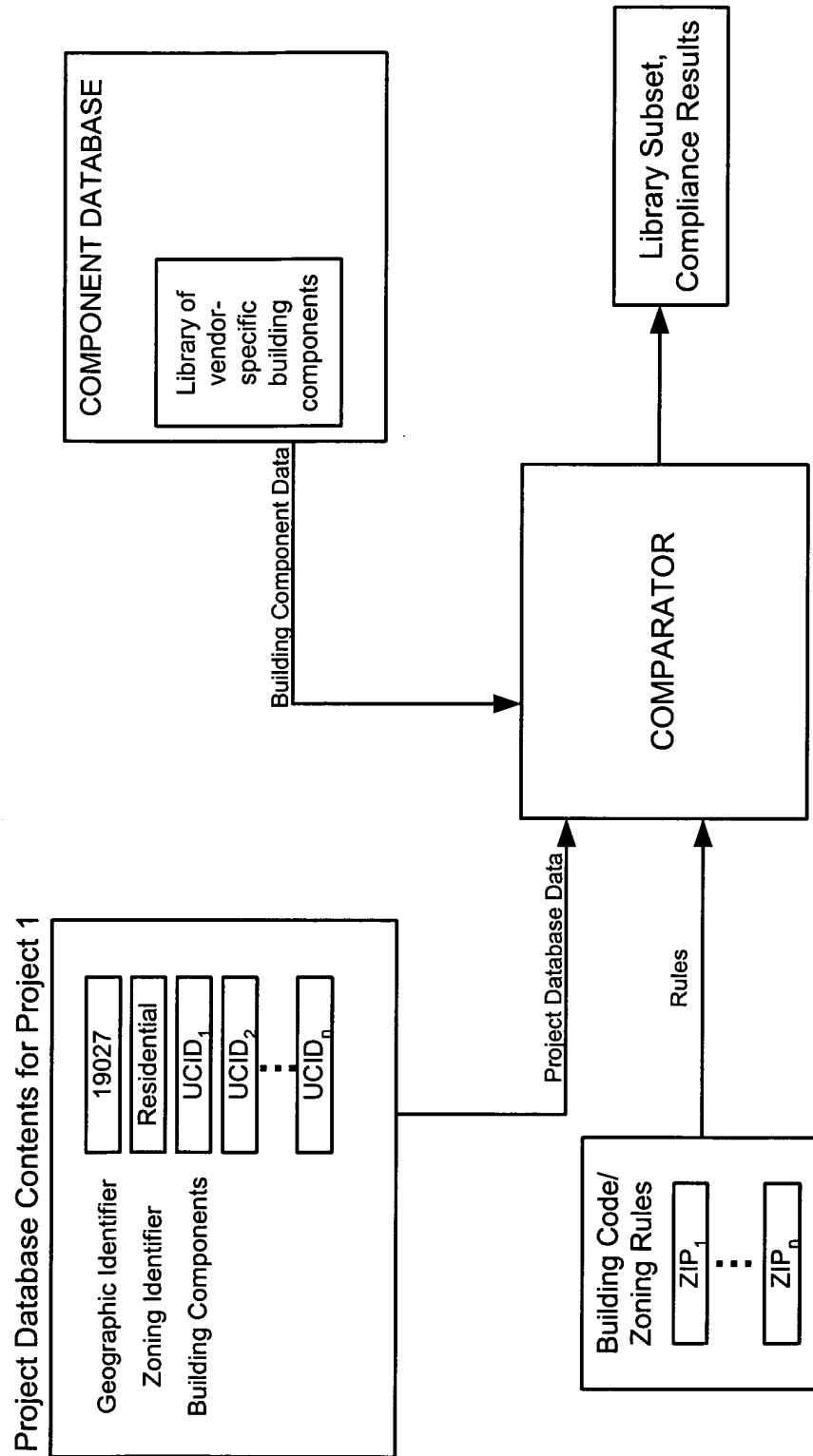


FIG. 18

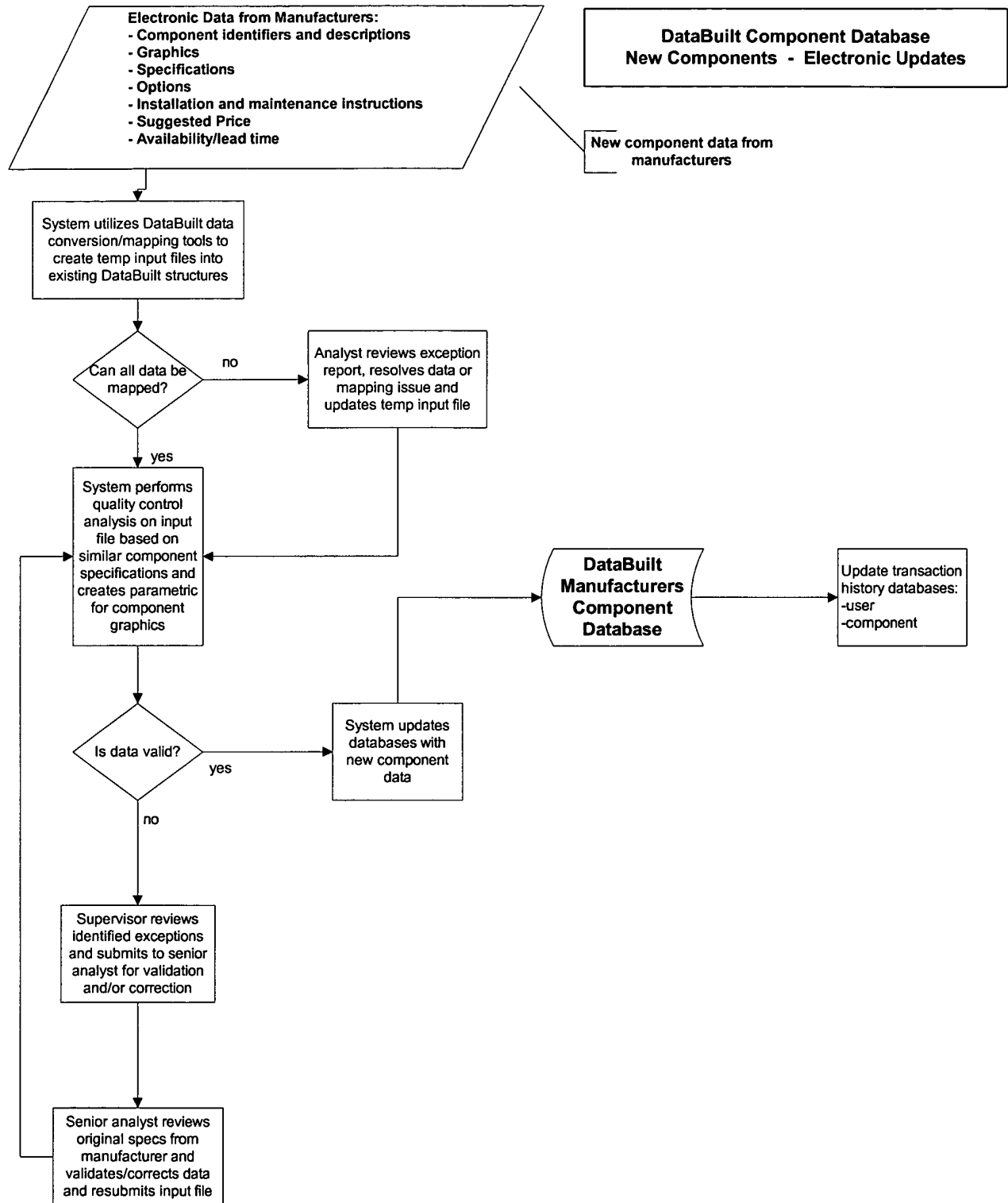


FIG. 19A

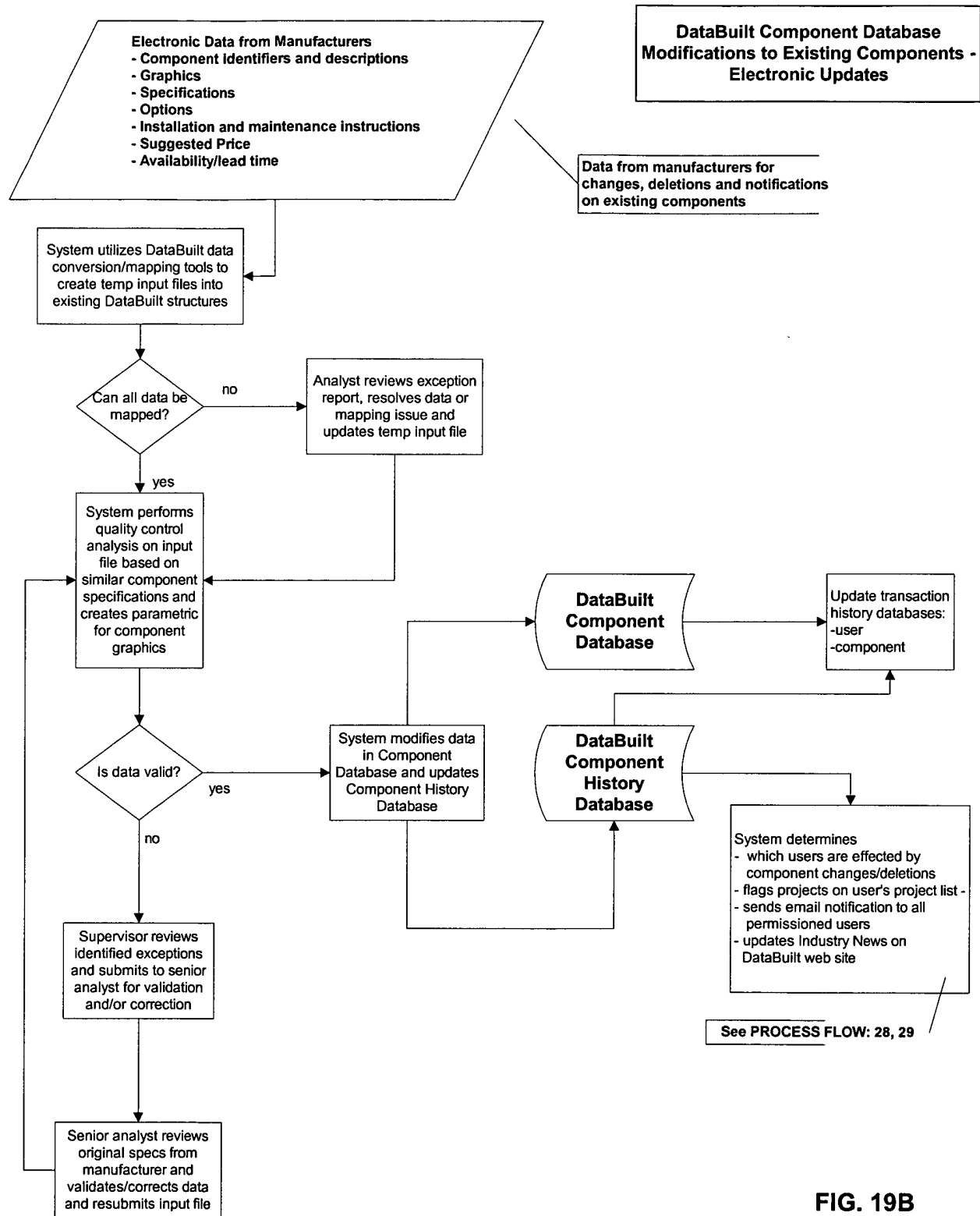


FIG. 19B

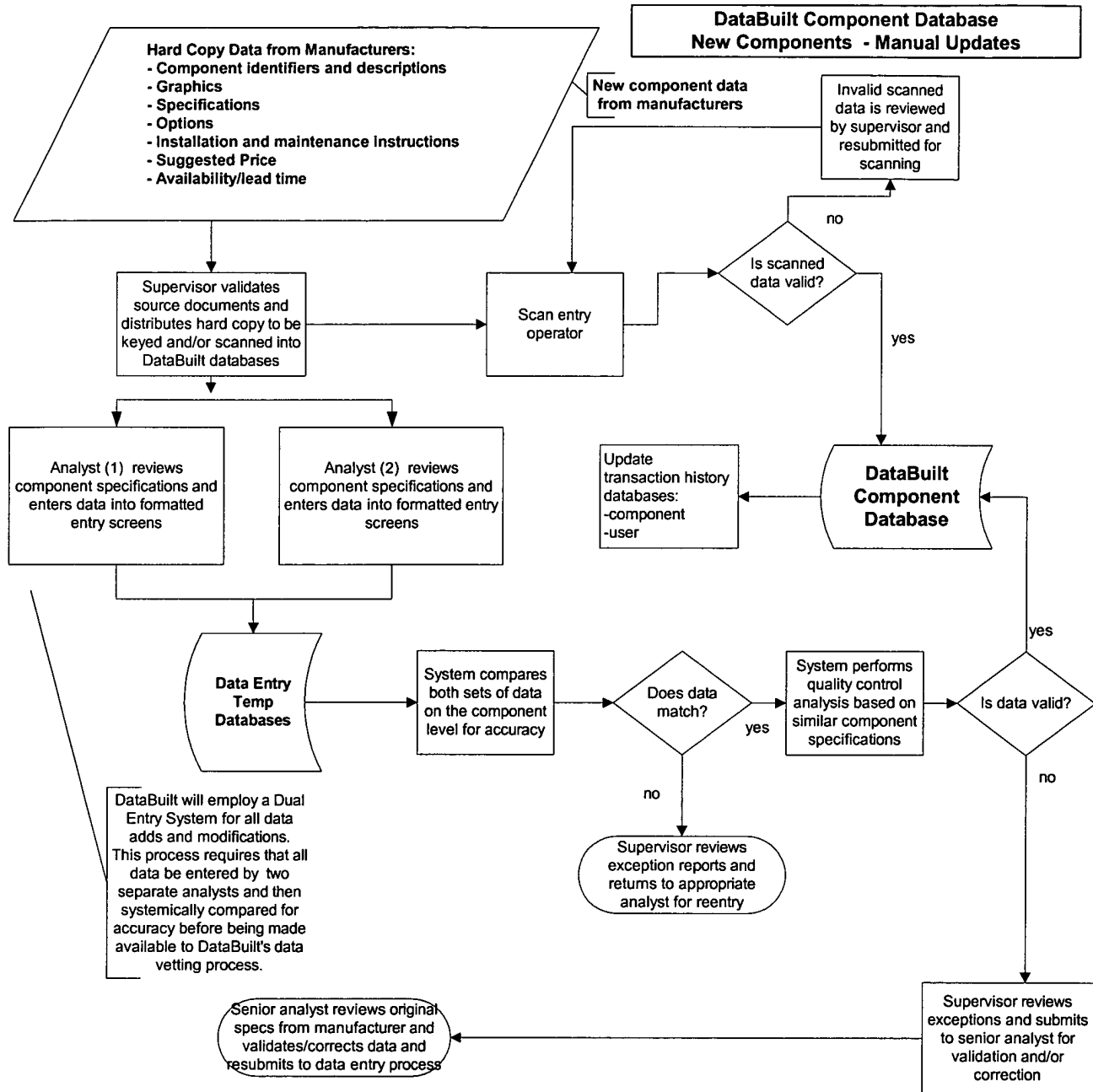


FIG. 19C

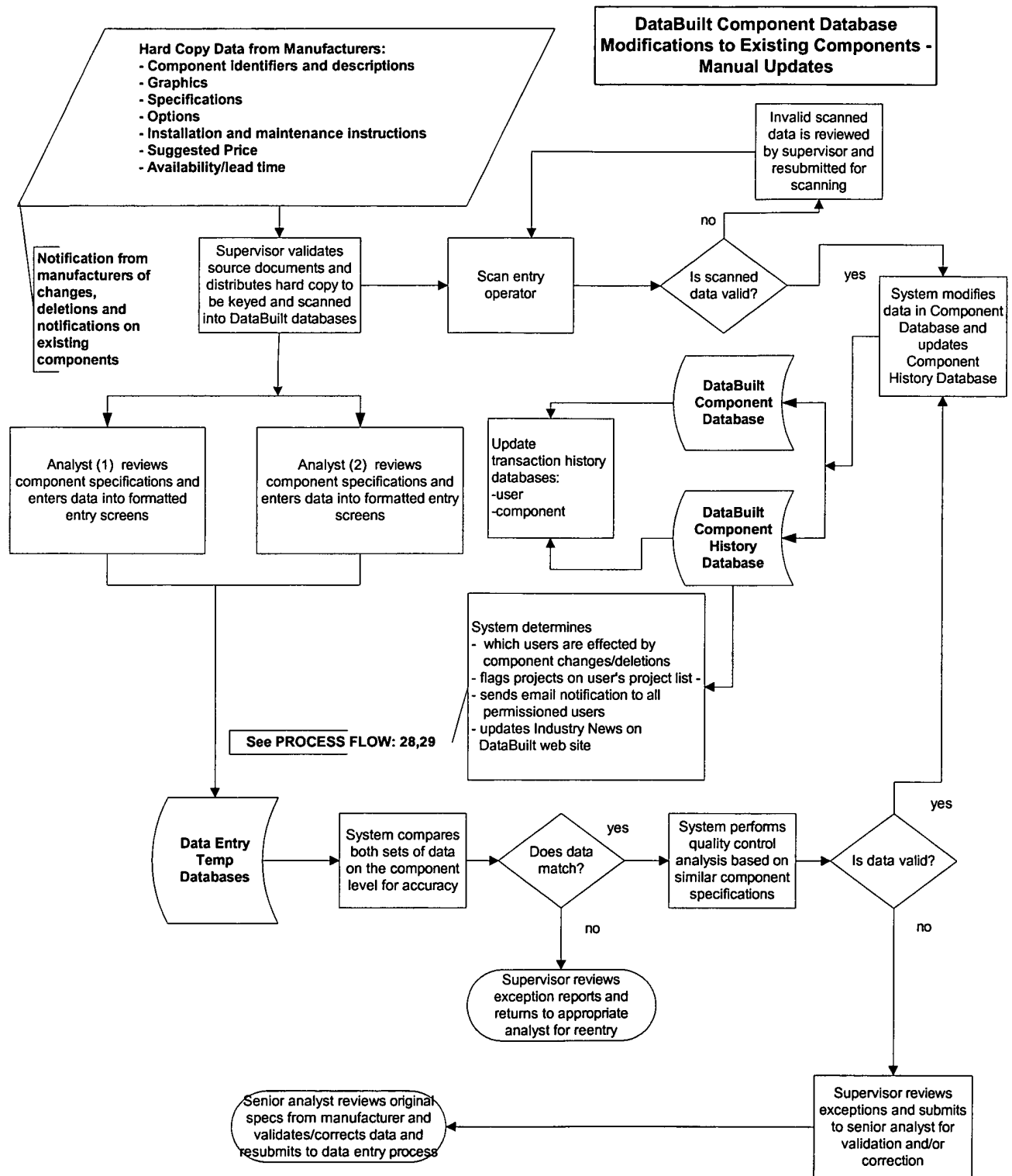


FIG. 19D

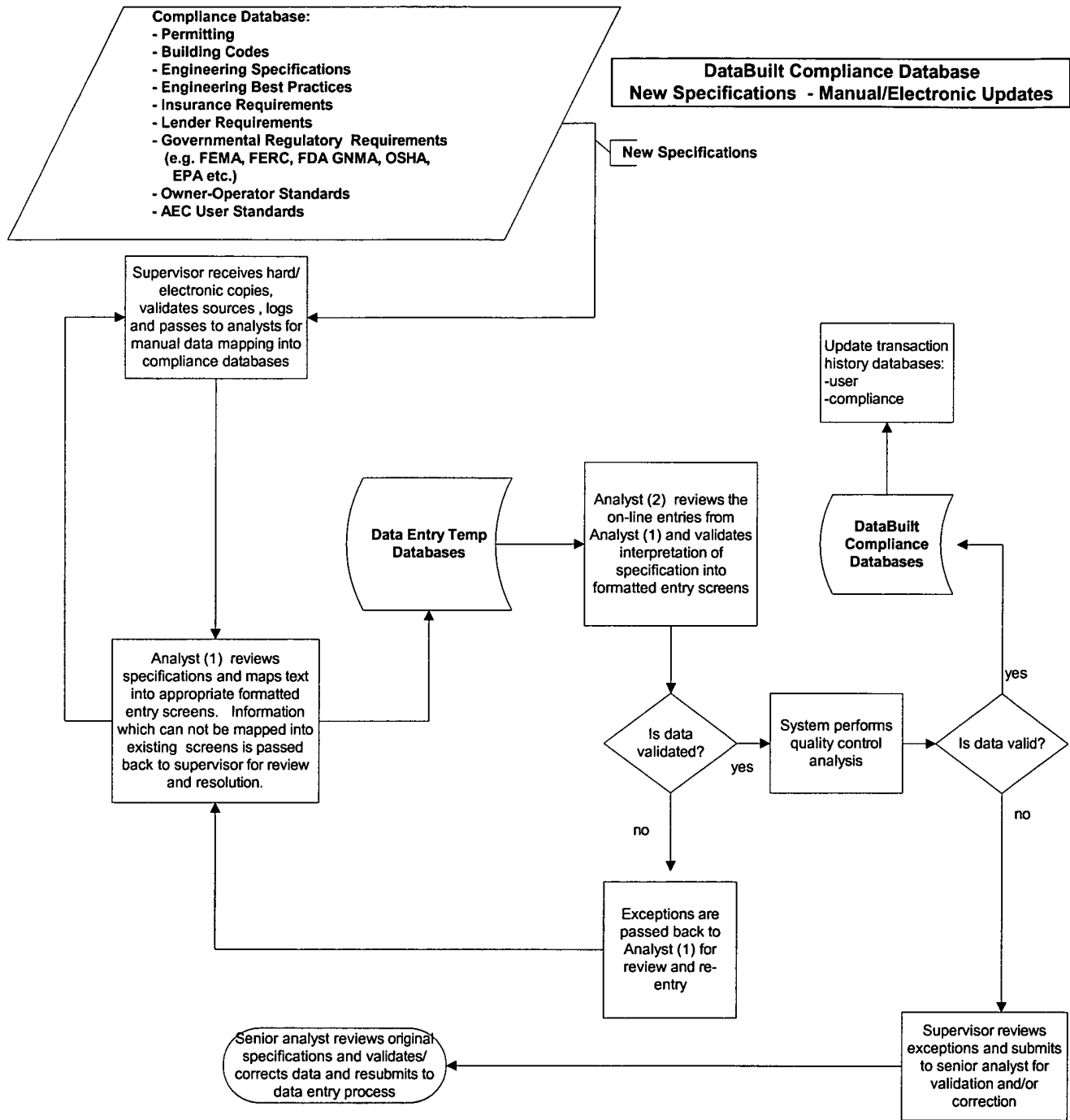


FIG. 19E

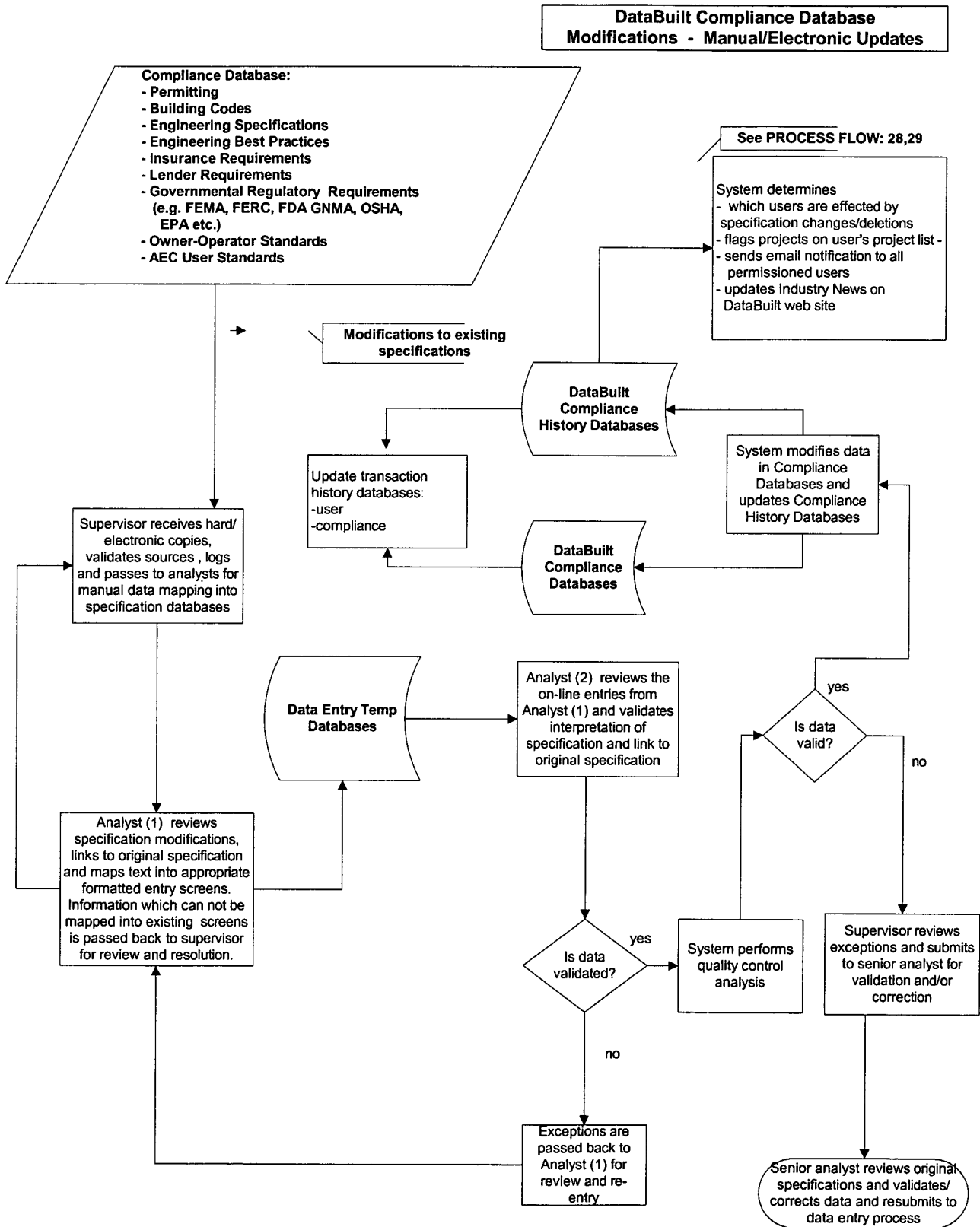
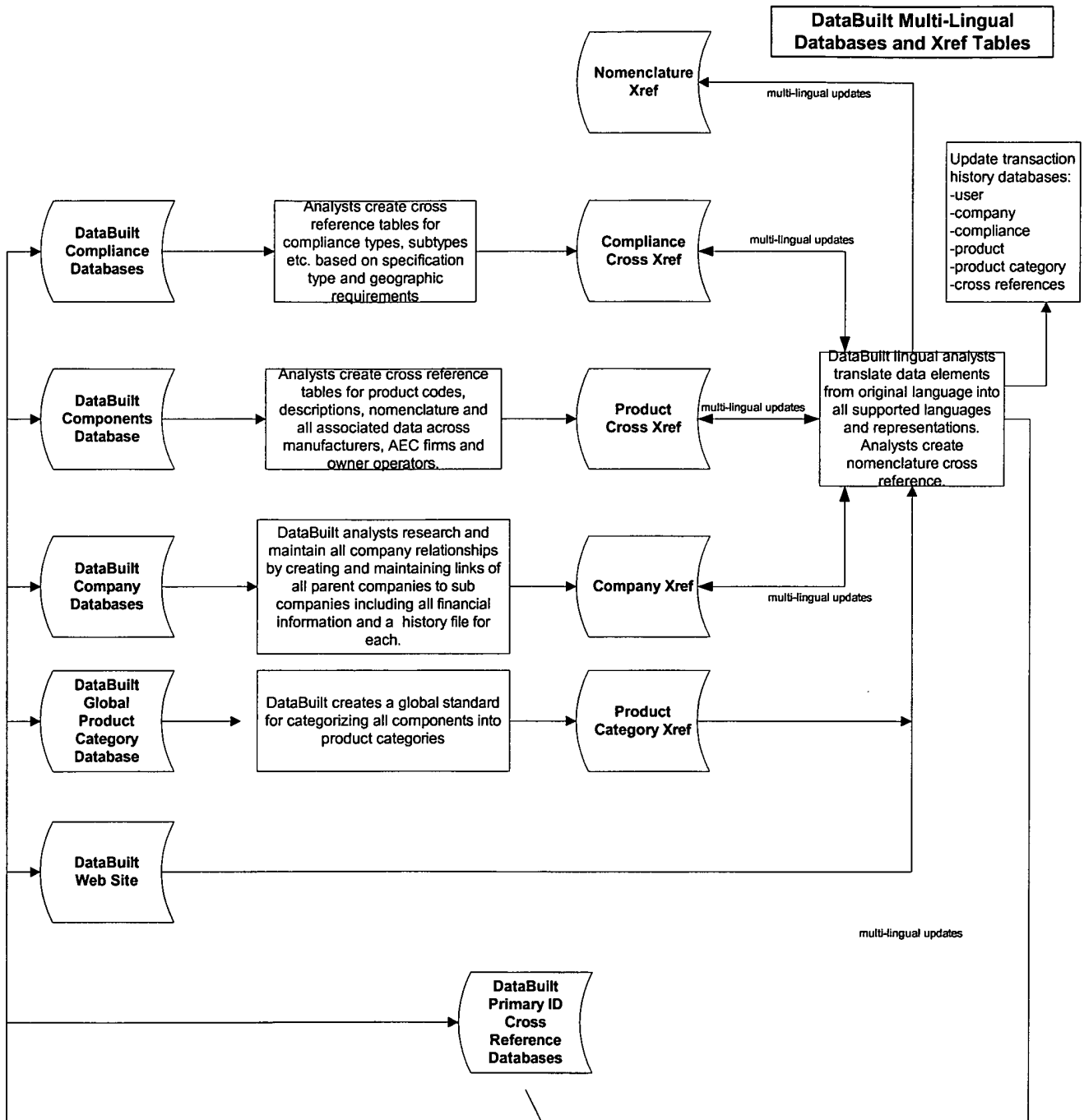


FIG. 19F

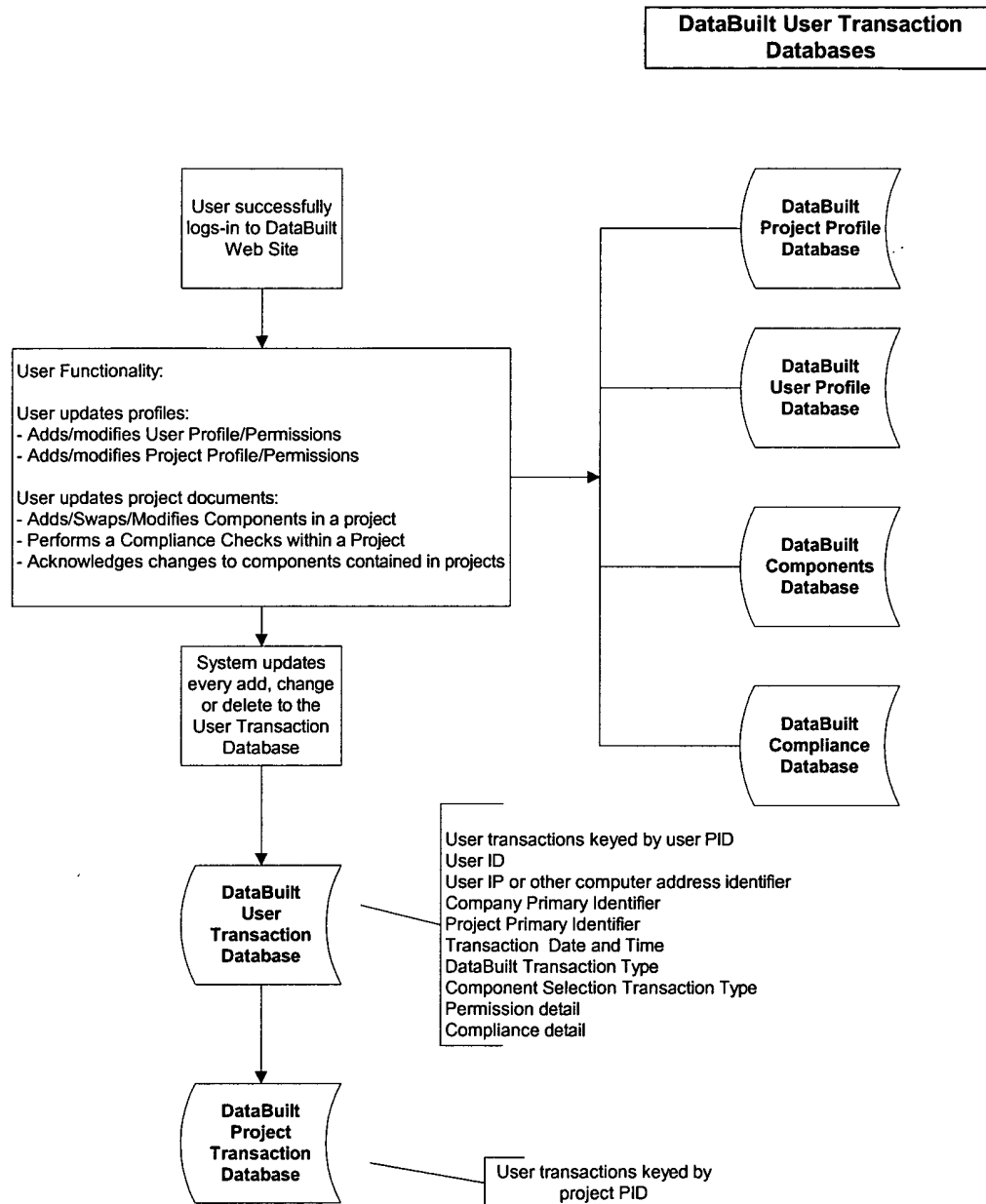


PROCESS FLOW: 7

FIG. 19G

DataBUILT assigns a DataBUILT Unique Primary ID (PID) to all data elements stored in DataBUILT Databases (e.g. user names, company names, component names, compliance code types (permit types, building codes, engineering specification type etc.), product categories etc.

For every PID established by DataBUILT, a sophisticated cross reference system is created which links DataBUILT's PID to all other IDs and information (description etc.) used in the AEC Industry and in general business. This allows DataBUILT to add, maintain and track history by linking all data elements to the single unique identifier.



10776-1U1-121201

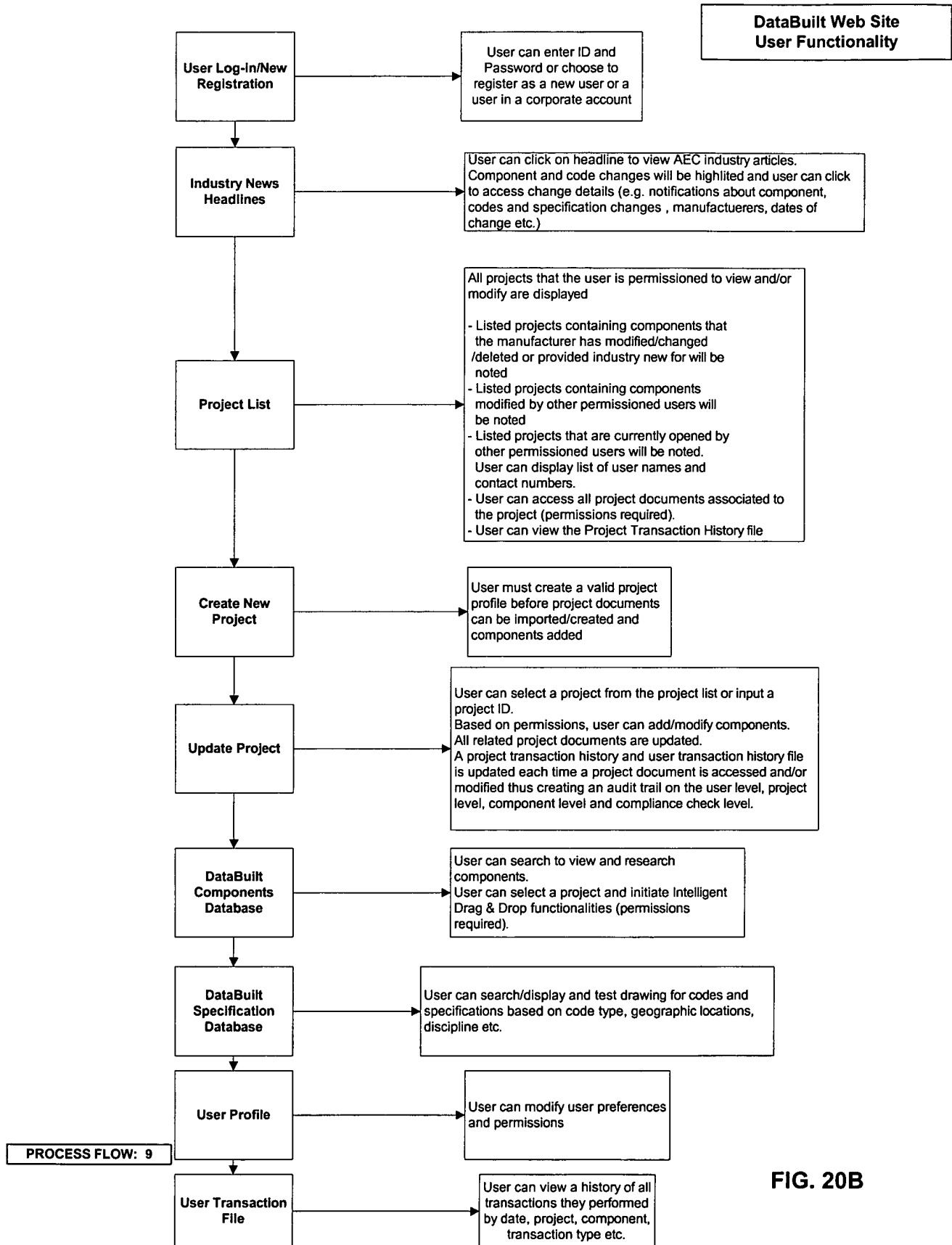


FIG. 20B

User Log-in
DataBuilt Web Site

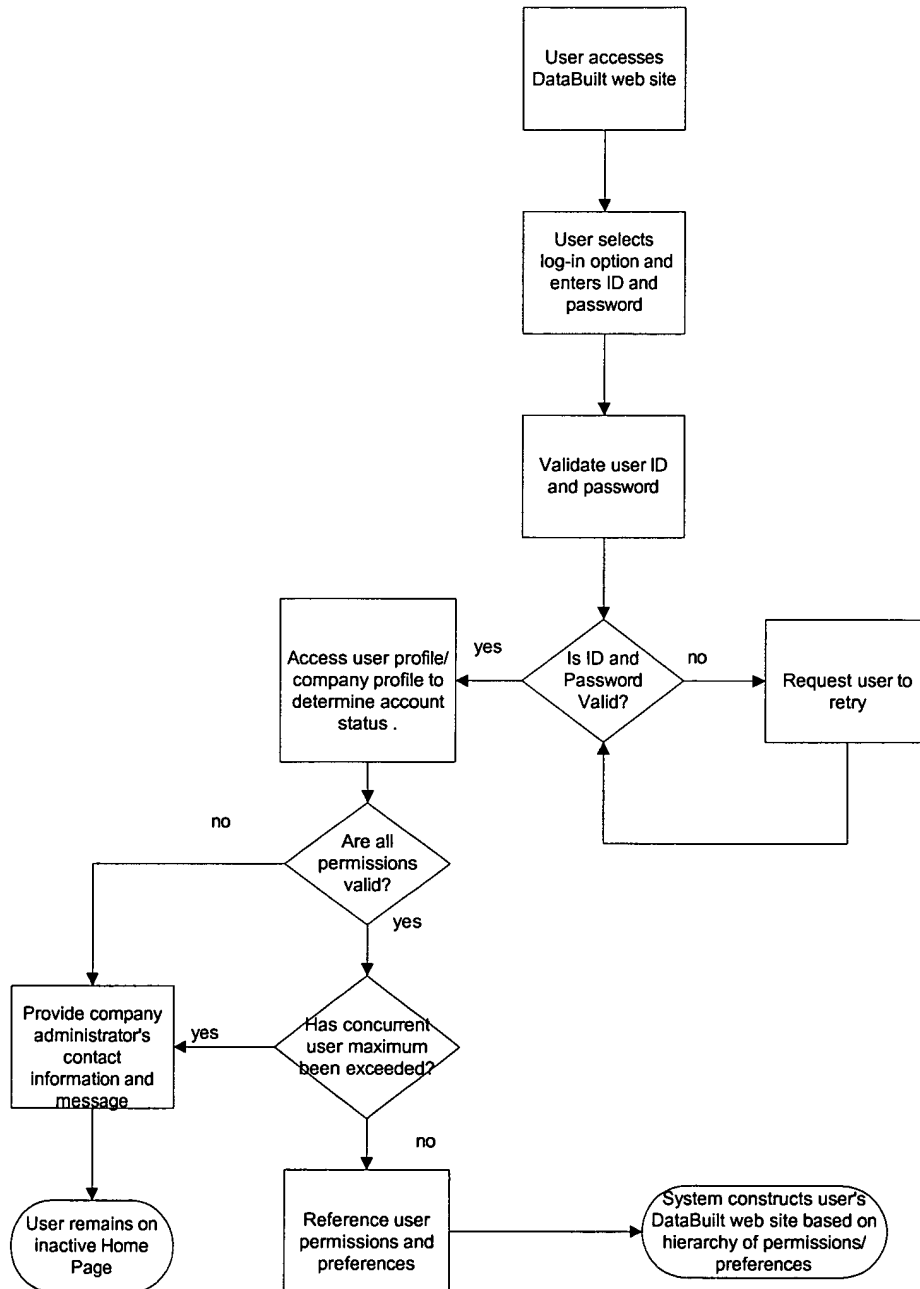


FIG. 20C

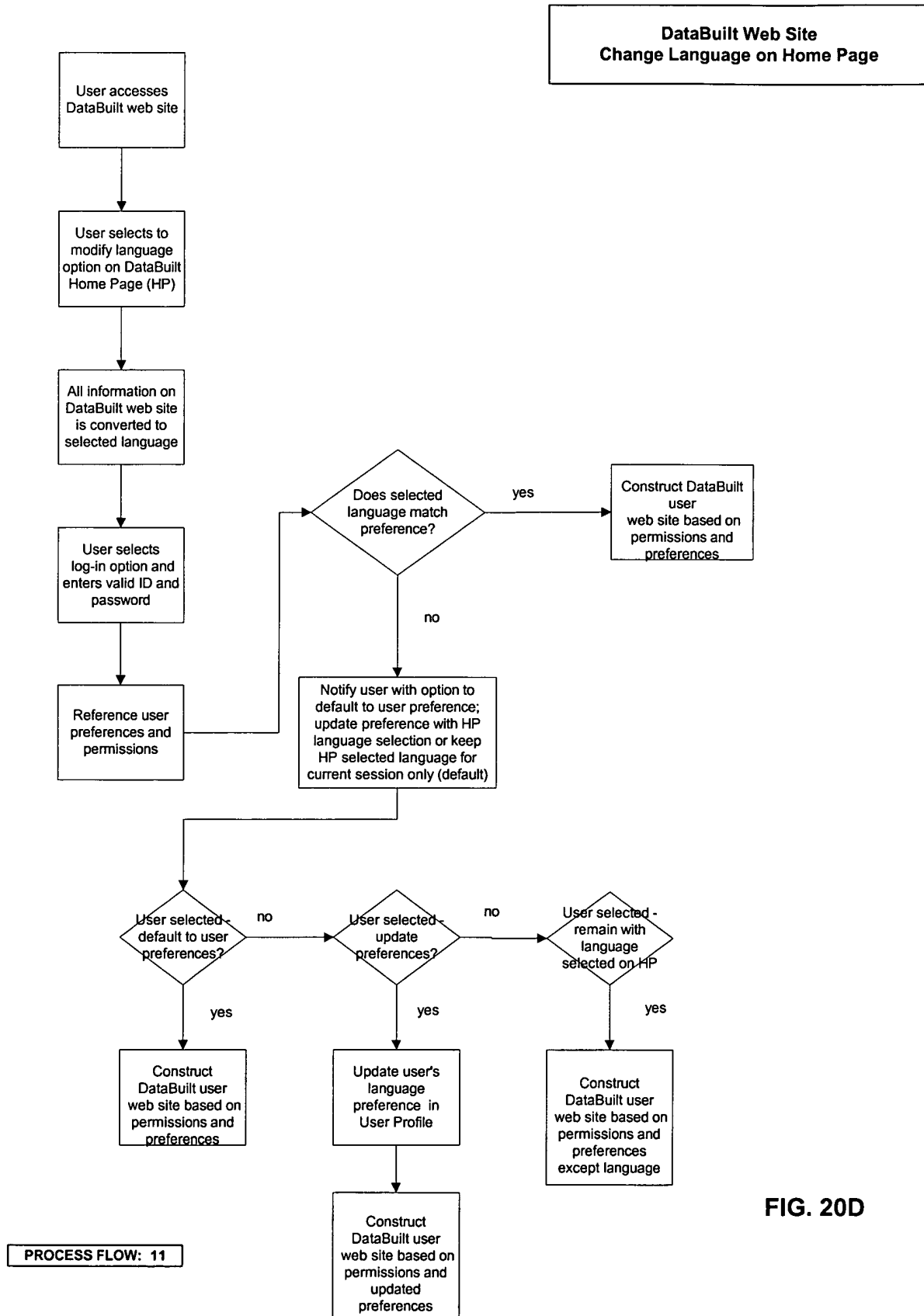
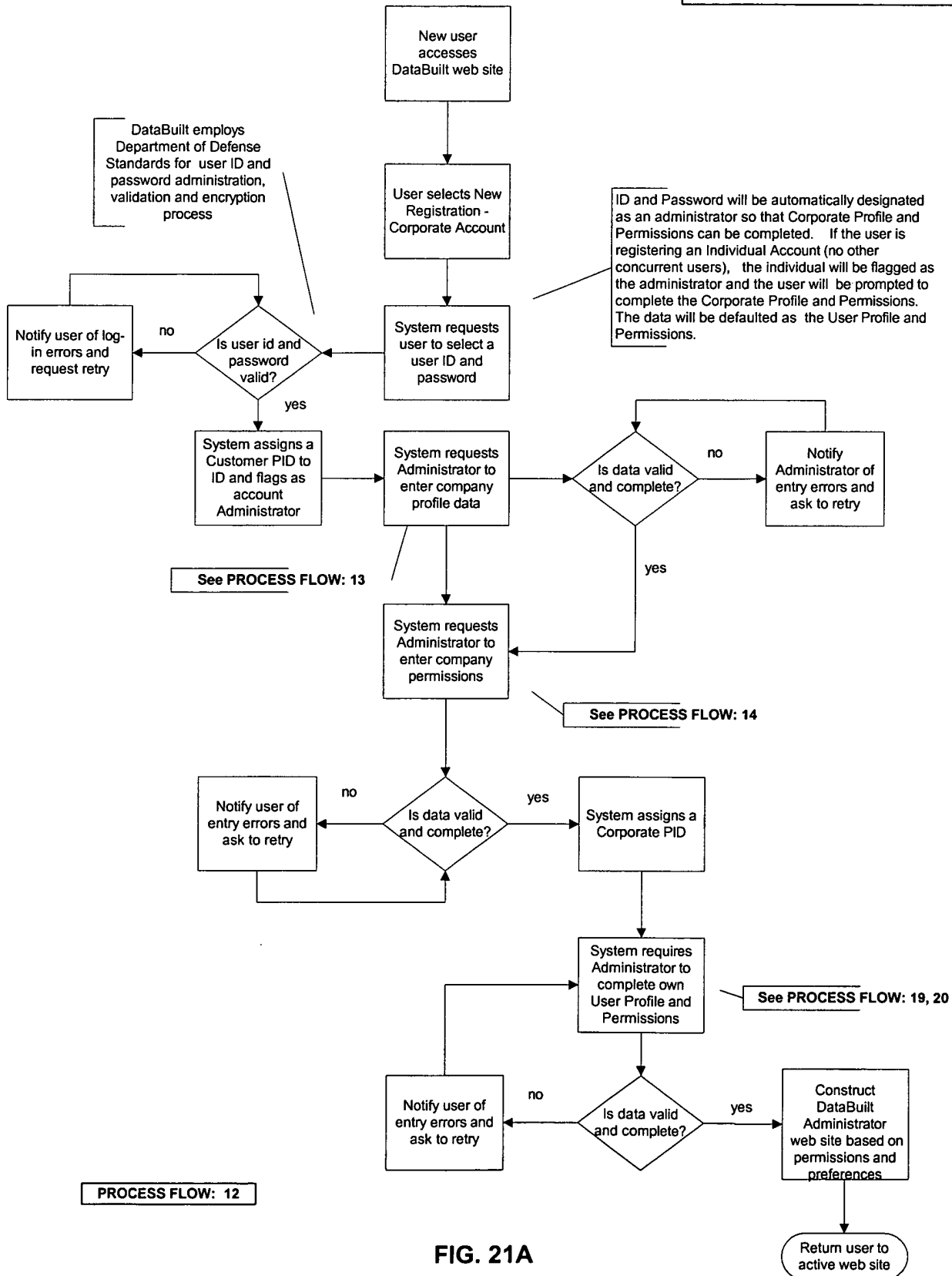


FIG. 20D

Corporate Account Registration



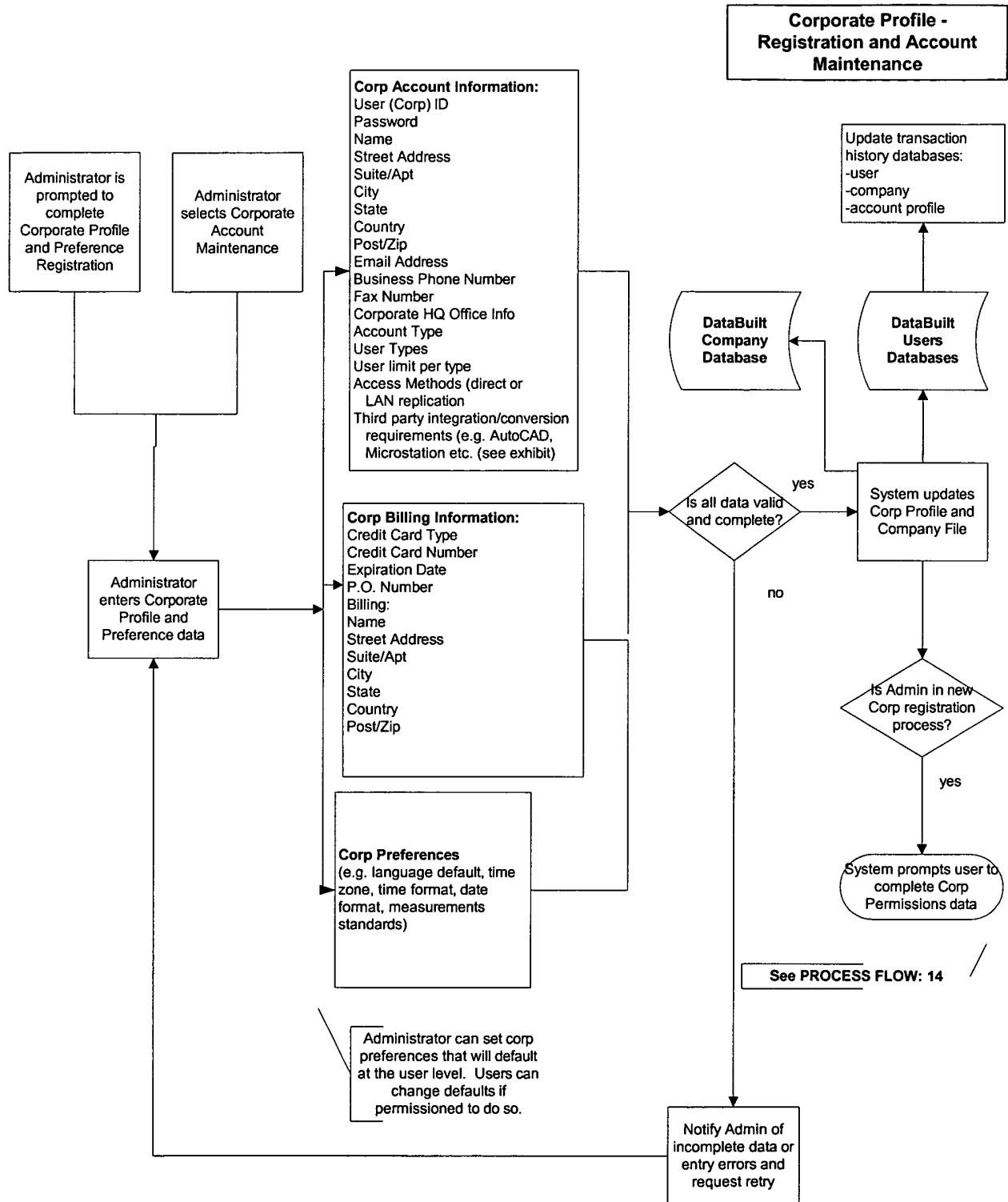
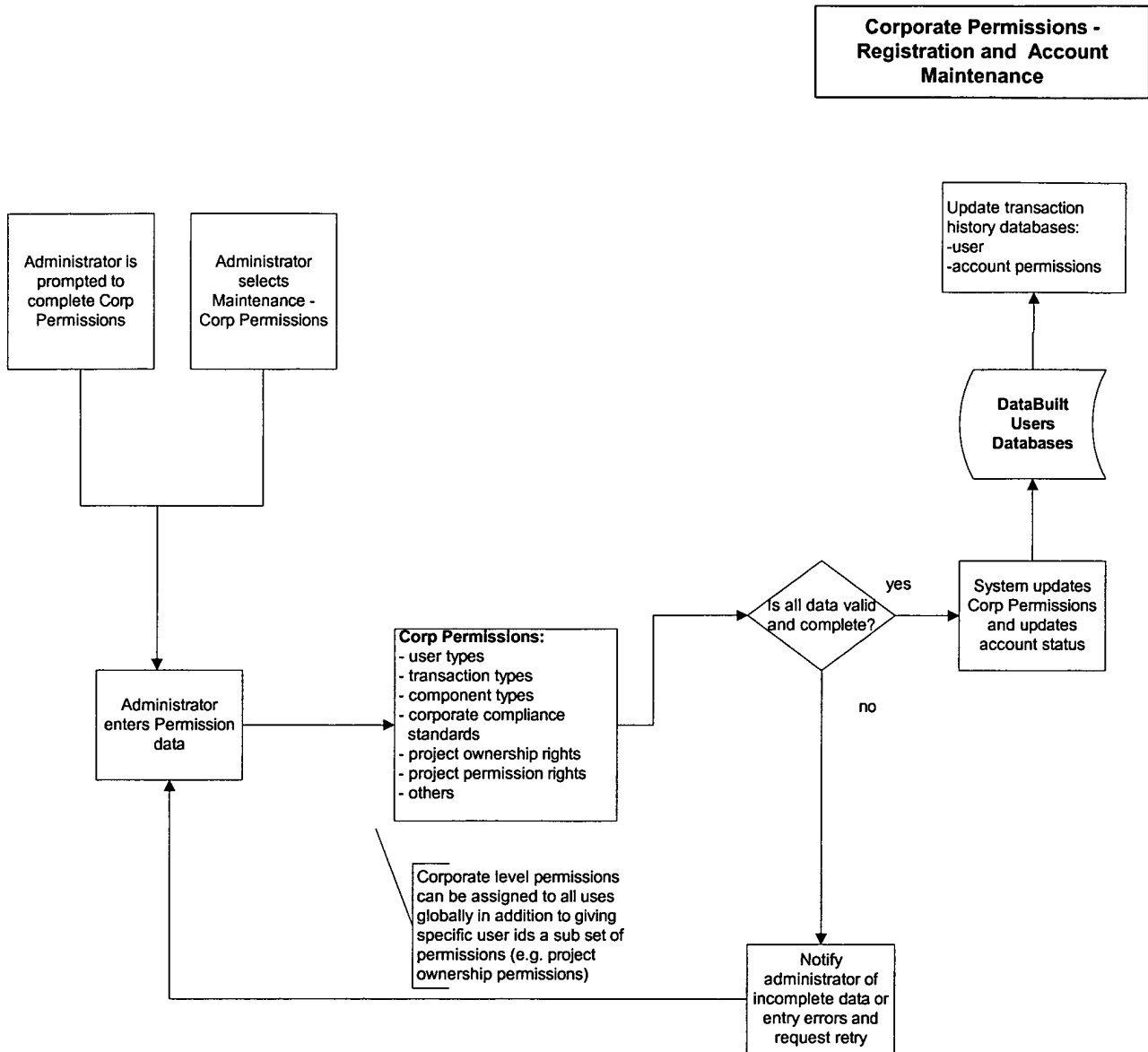
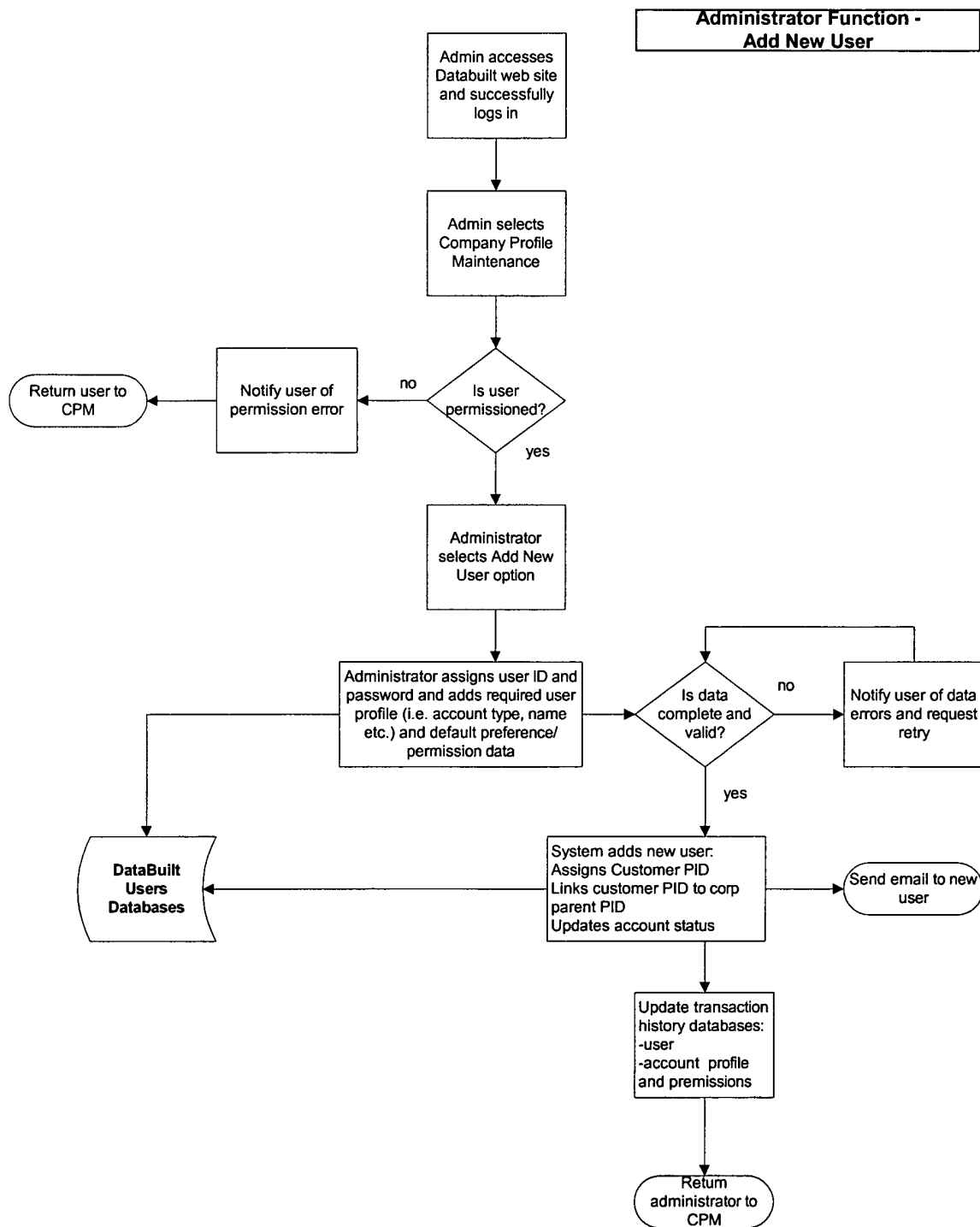
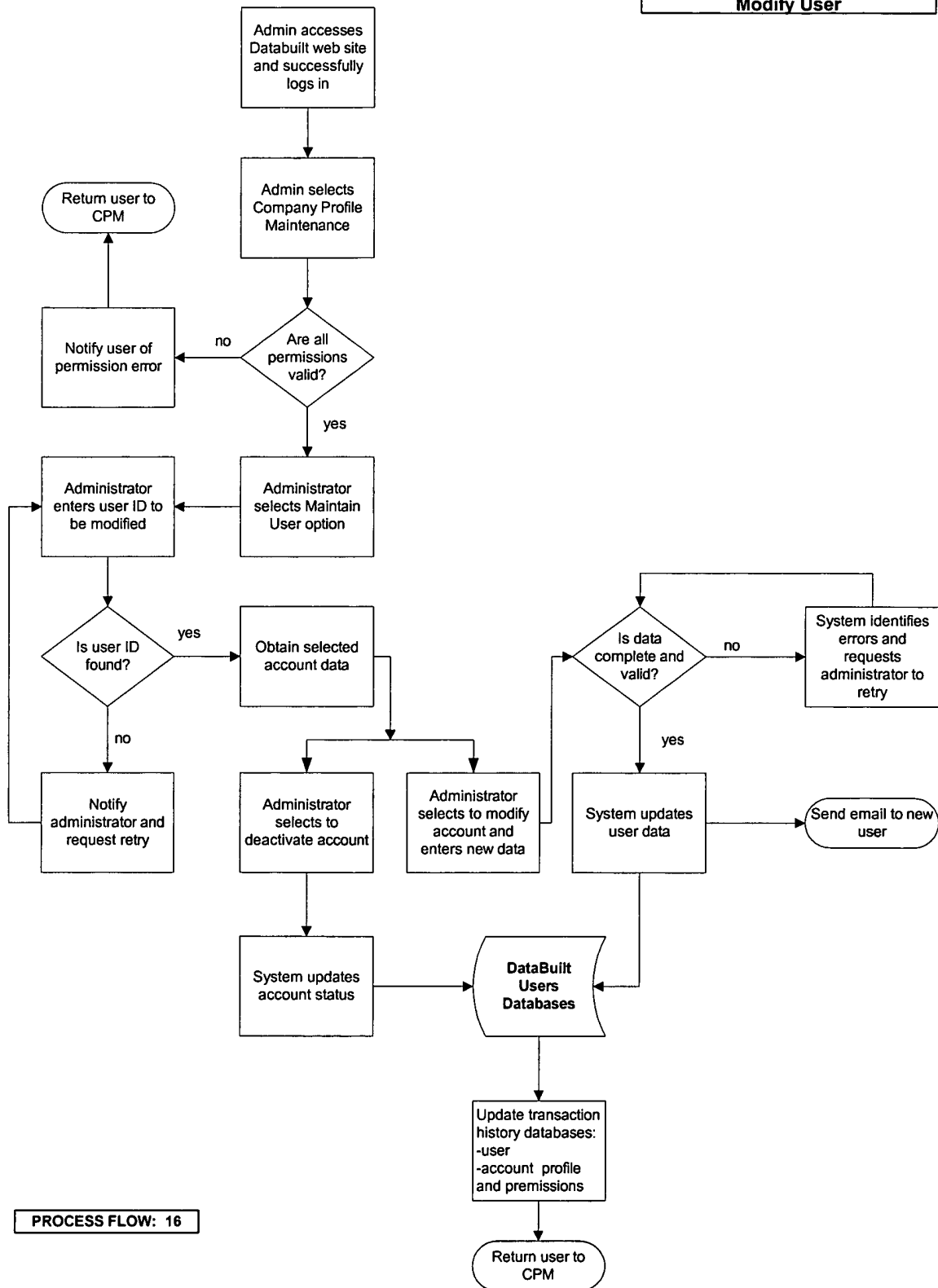


FIG. 21B



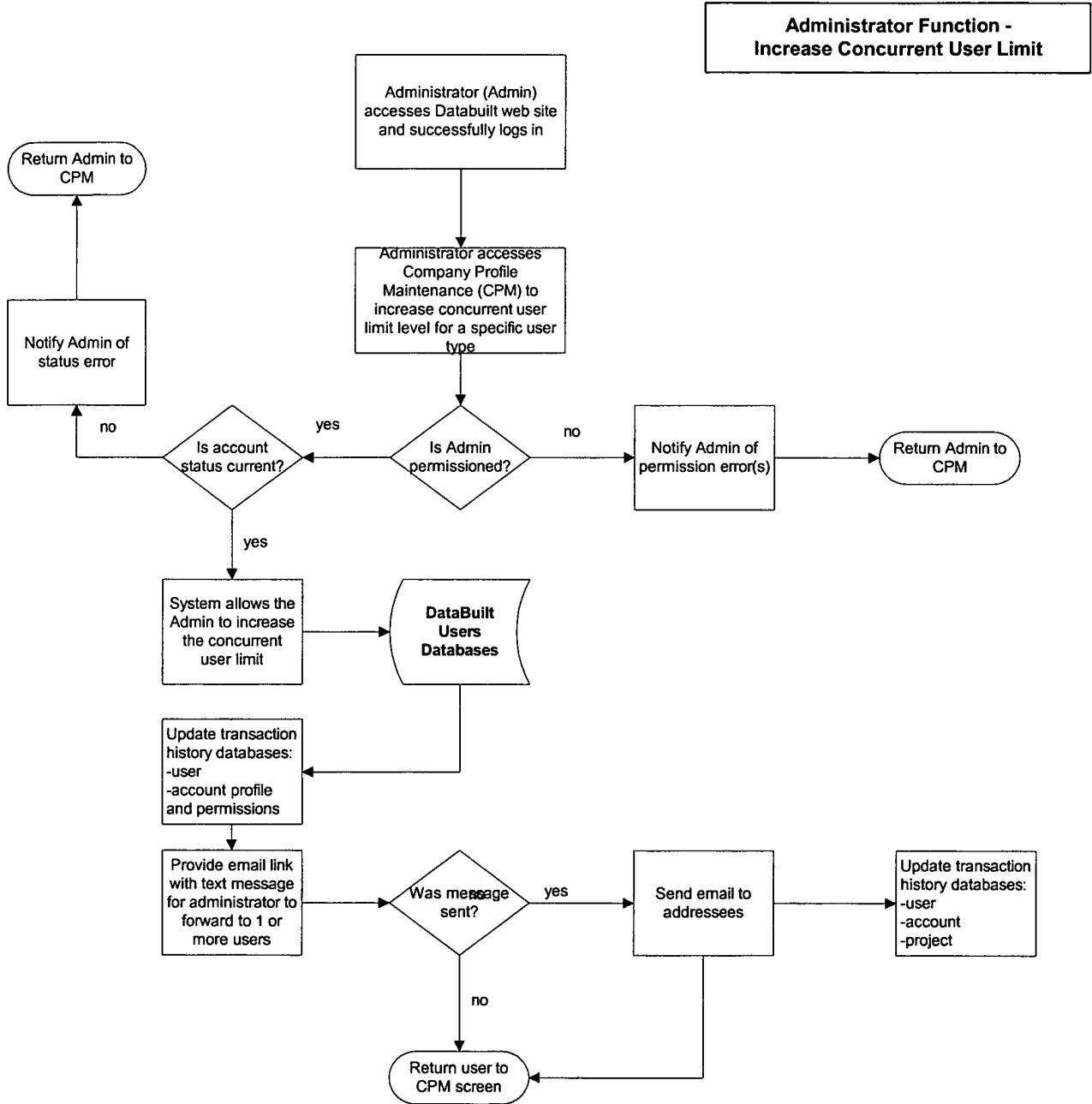


**Administrator Functions -
Modify User**



PROCESS FLOW: 16

FIG. 21E



PROCESS FLOW: 17

FIG. 21F

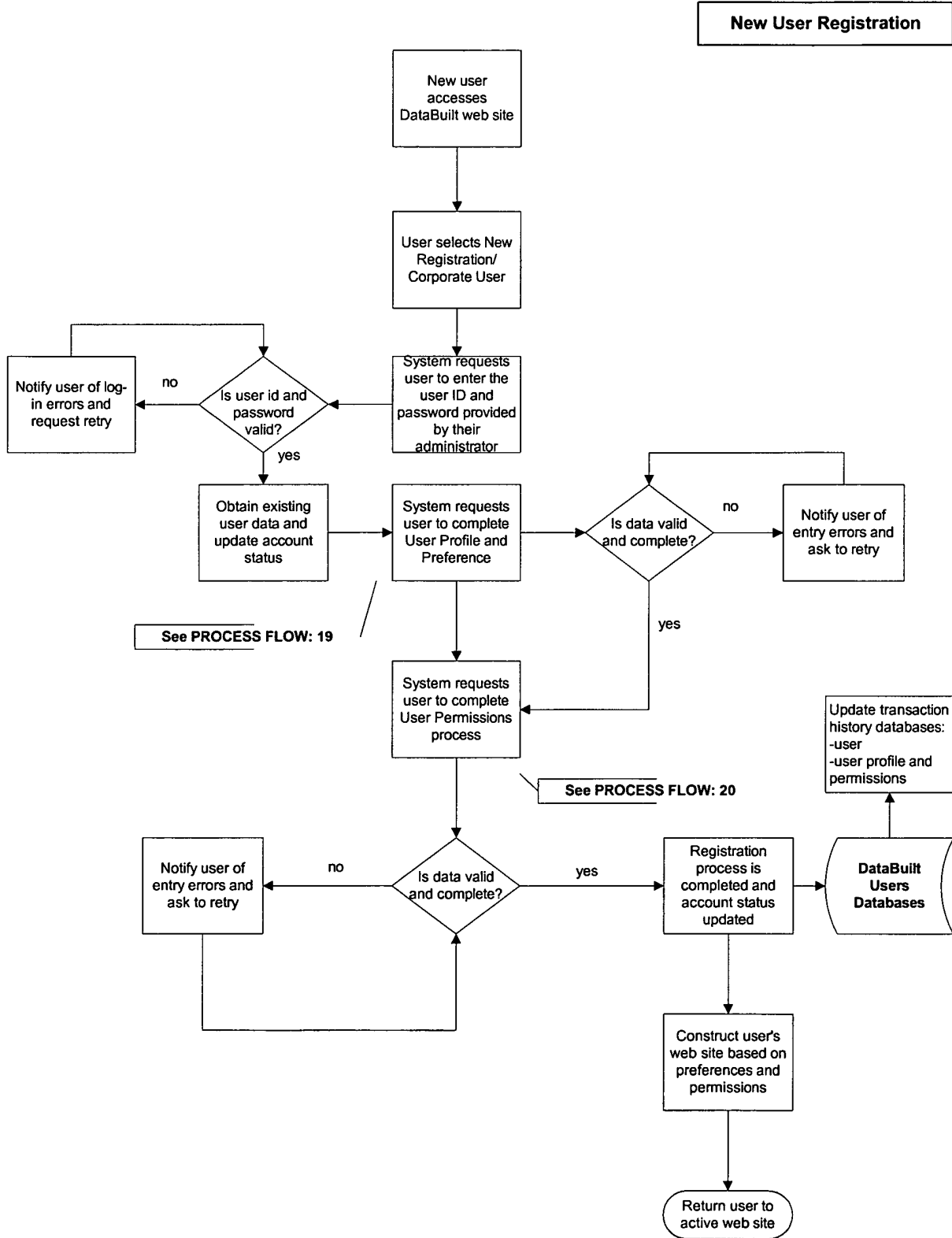
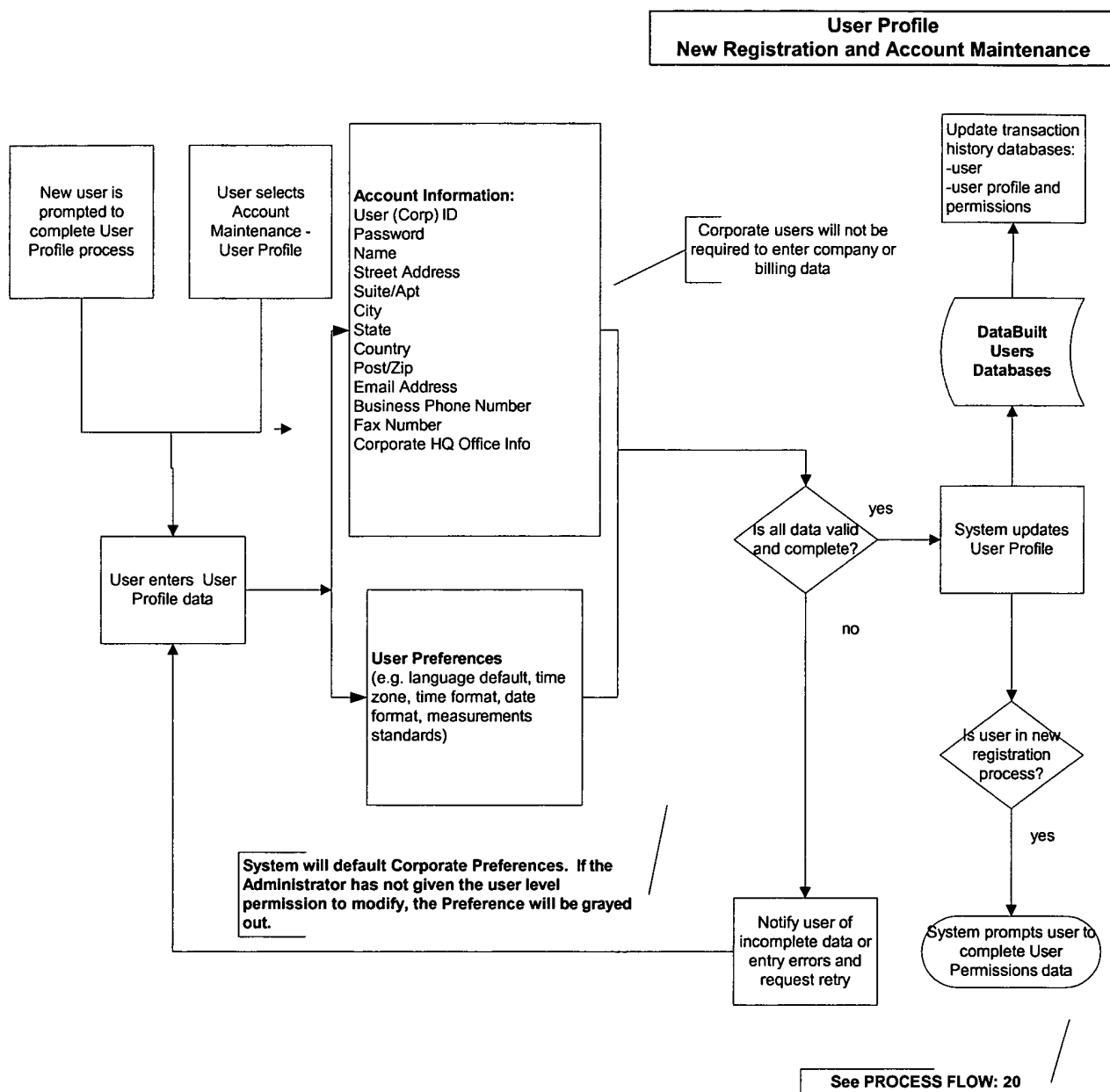


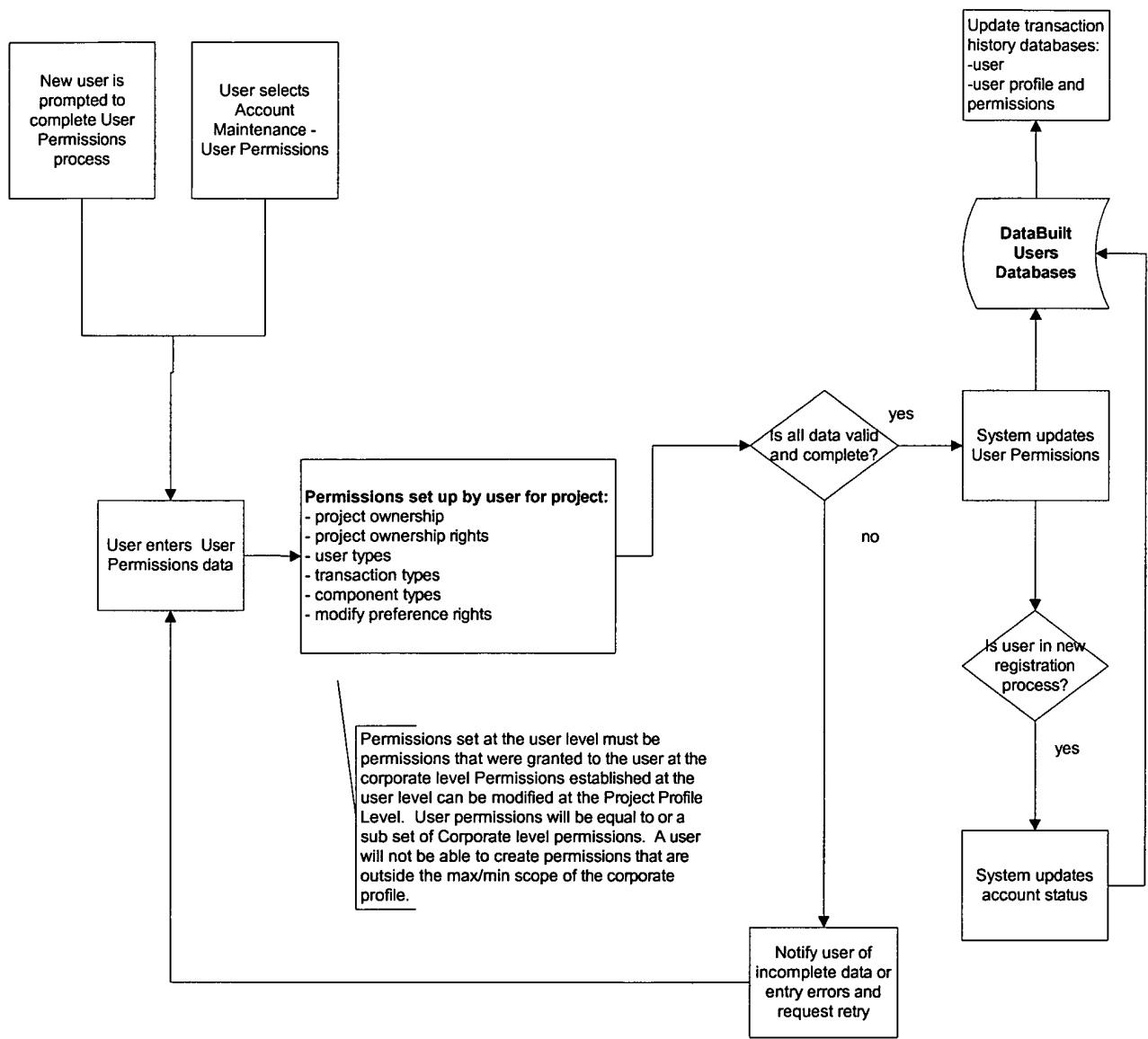
FIG. 21G

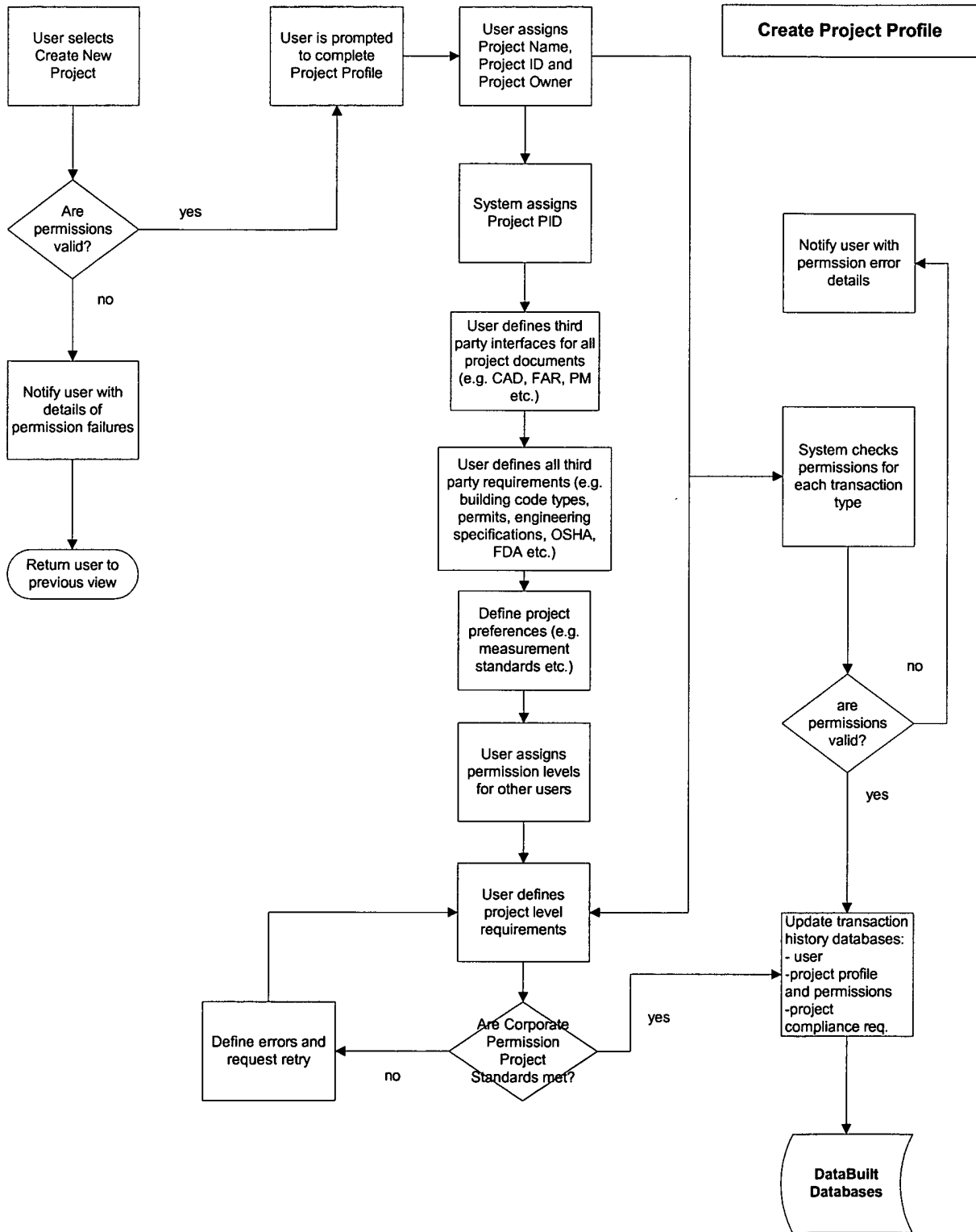


PROCESS FLOW: 19

FIG. 21H

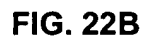
**User Permissions
 Registration and Account Maintenance**





PROCESS FLOW: 21

FIG. 22A



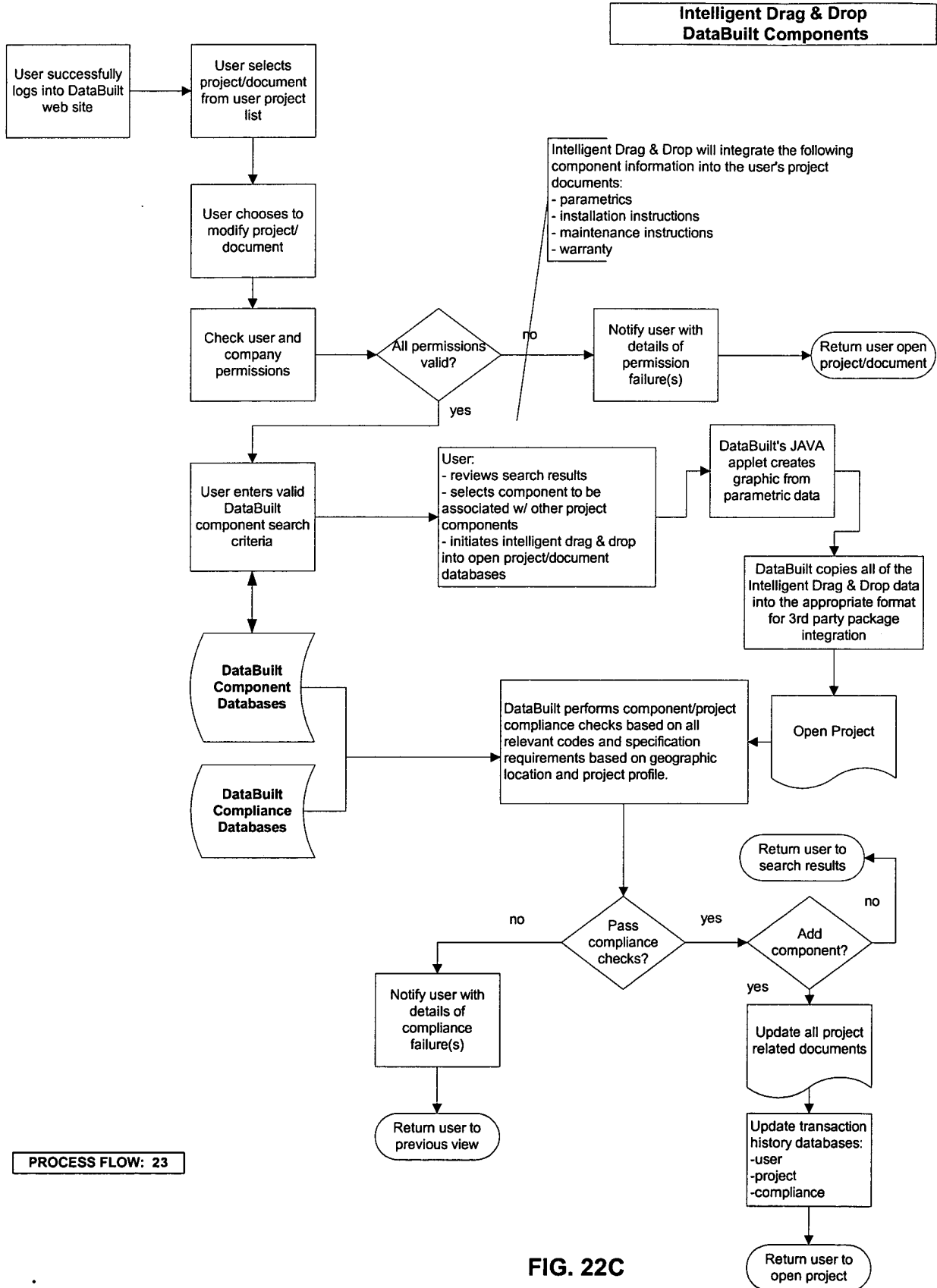
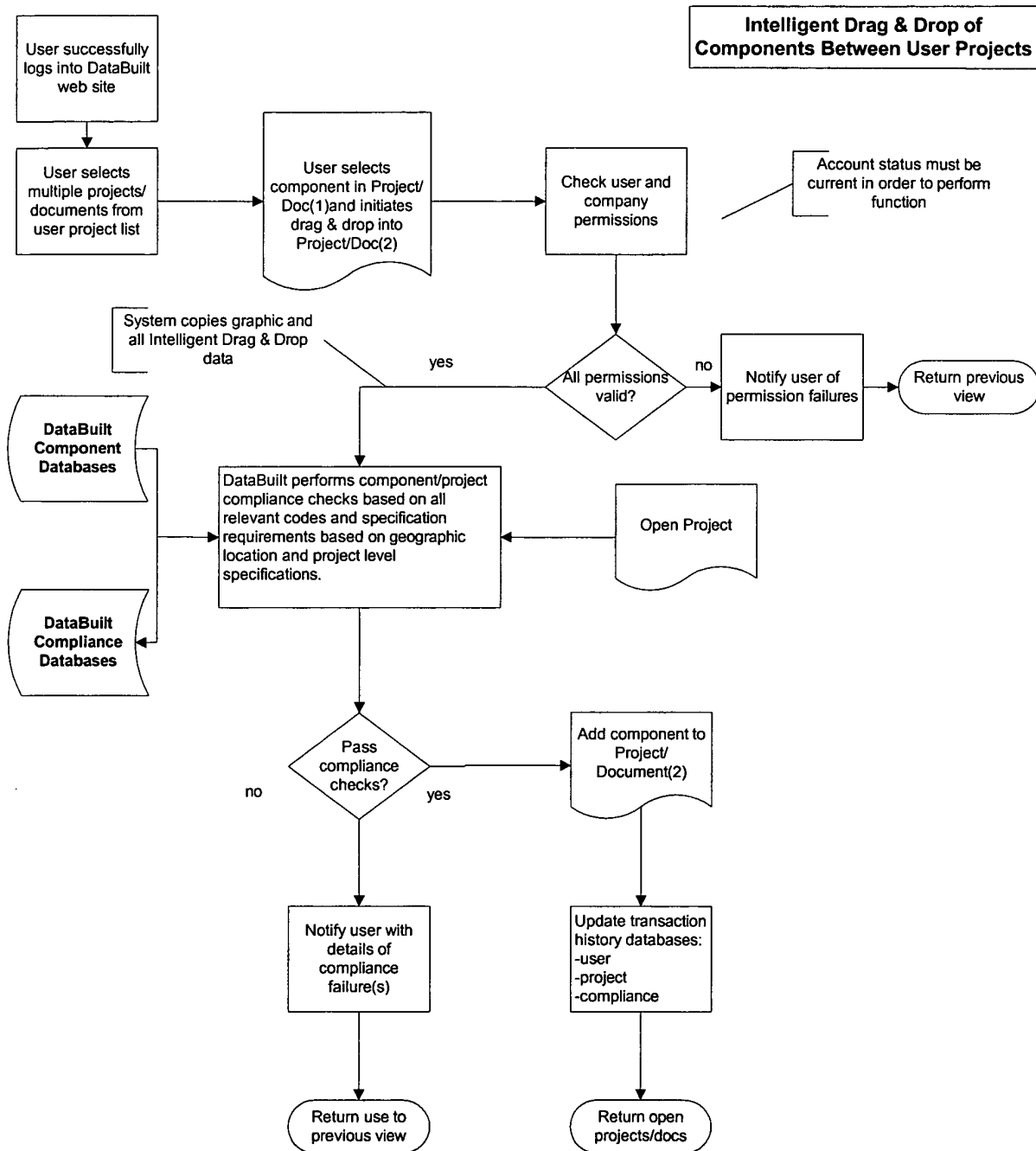
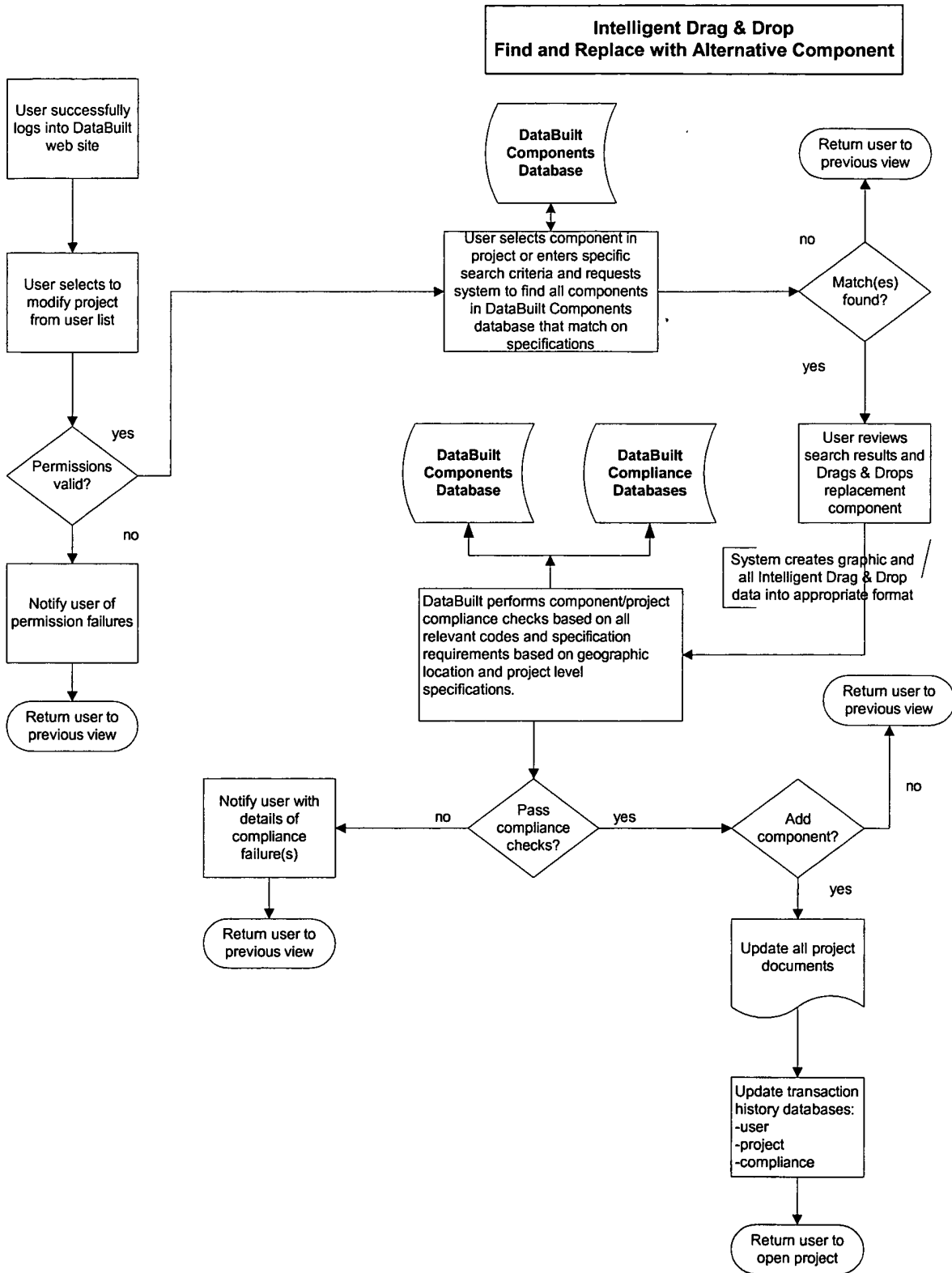


FIG. 22C





PROCESS FLOW: 25

FIG. 22E

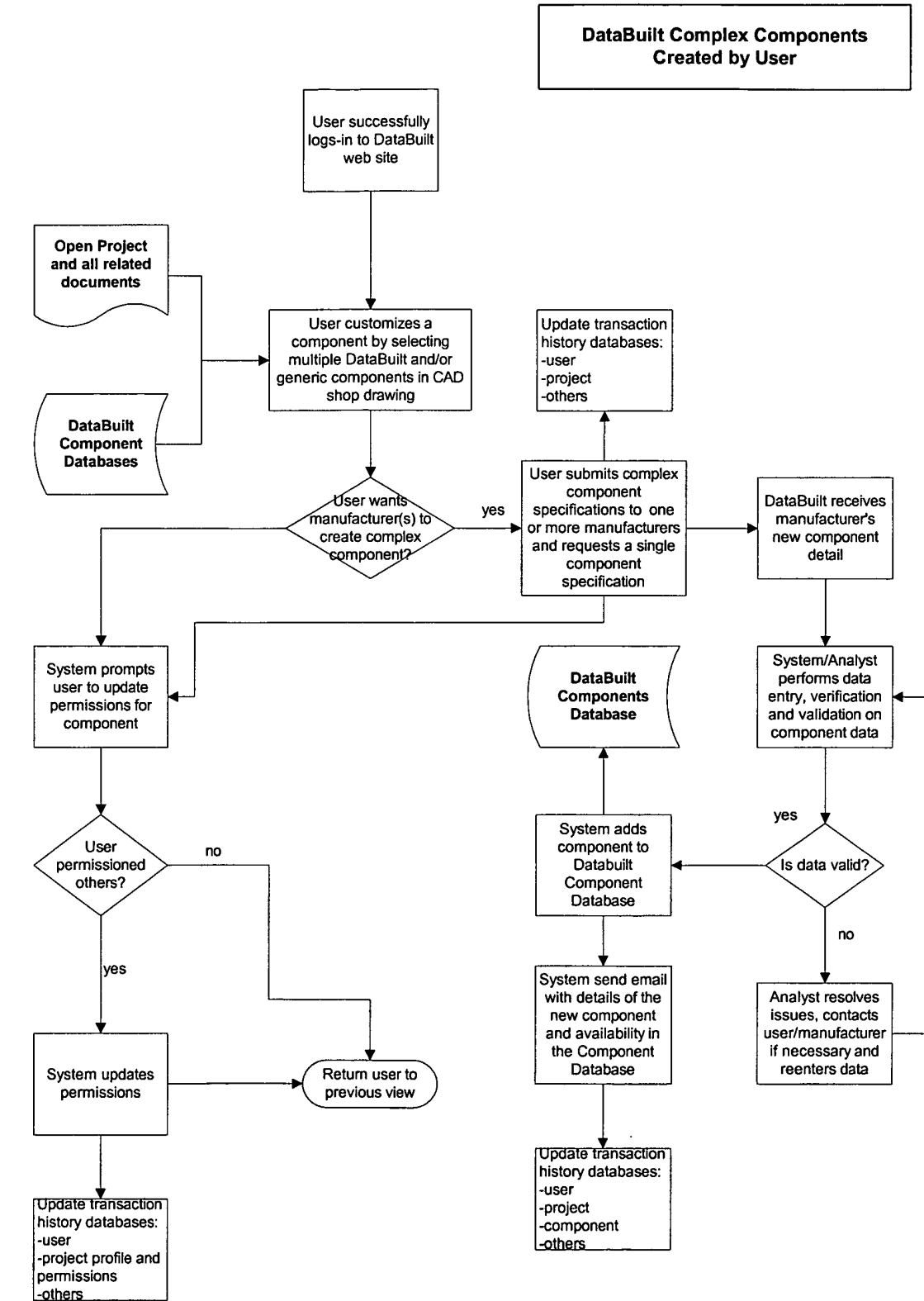


FIG. 23A

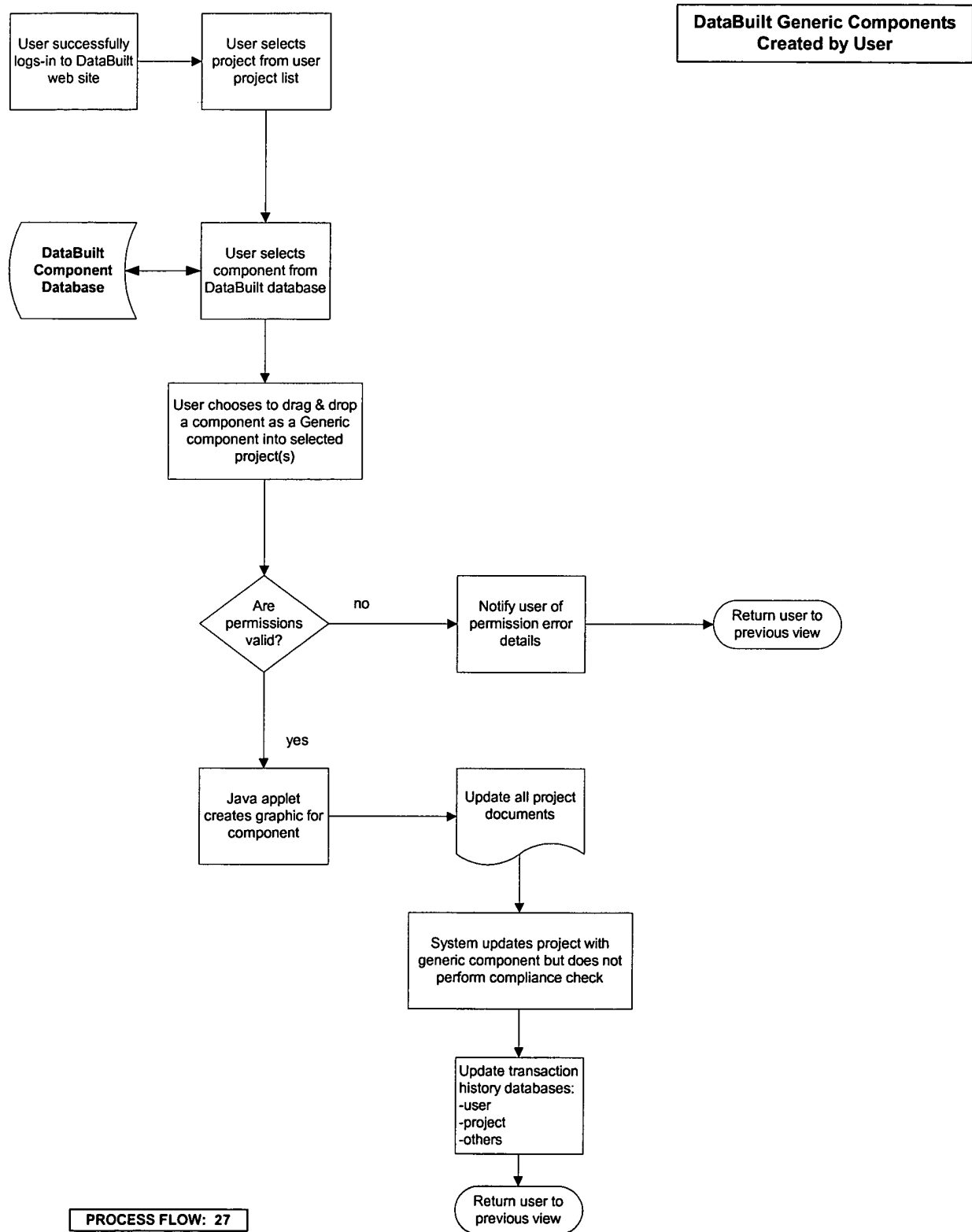


FIG. 23B

**DataBuilt Component Changes
 Project Alert on User's Project List**

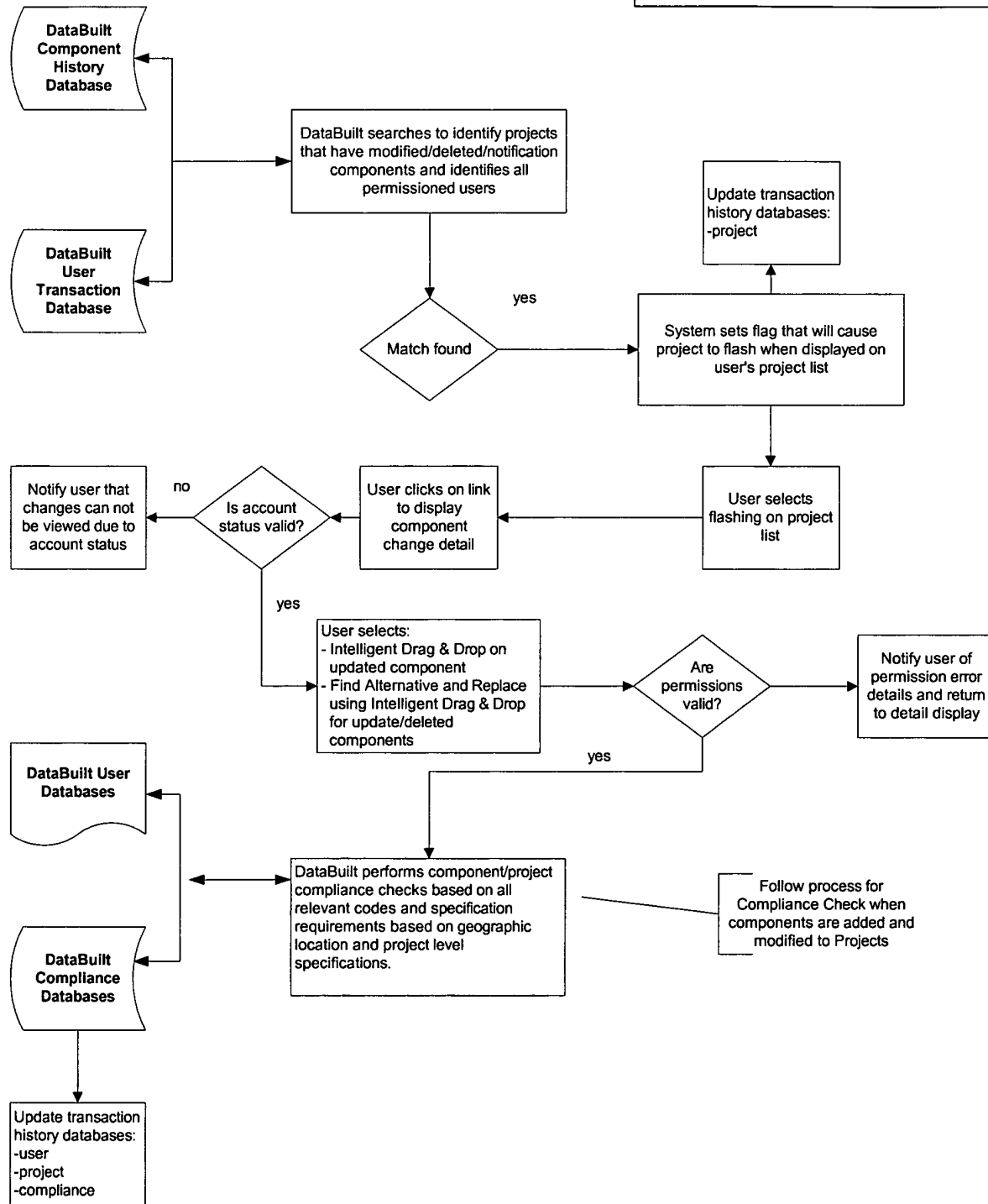


FIG. 24A

**DataBuilt Component Changes
Project Alert by Email to Users**

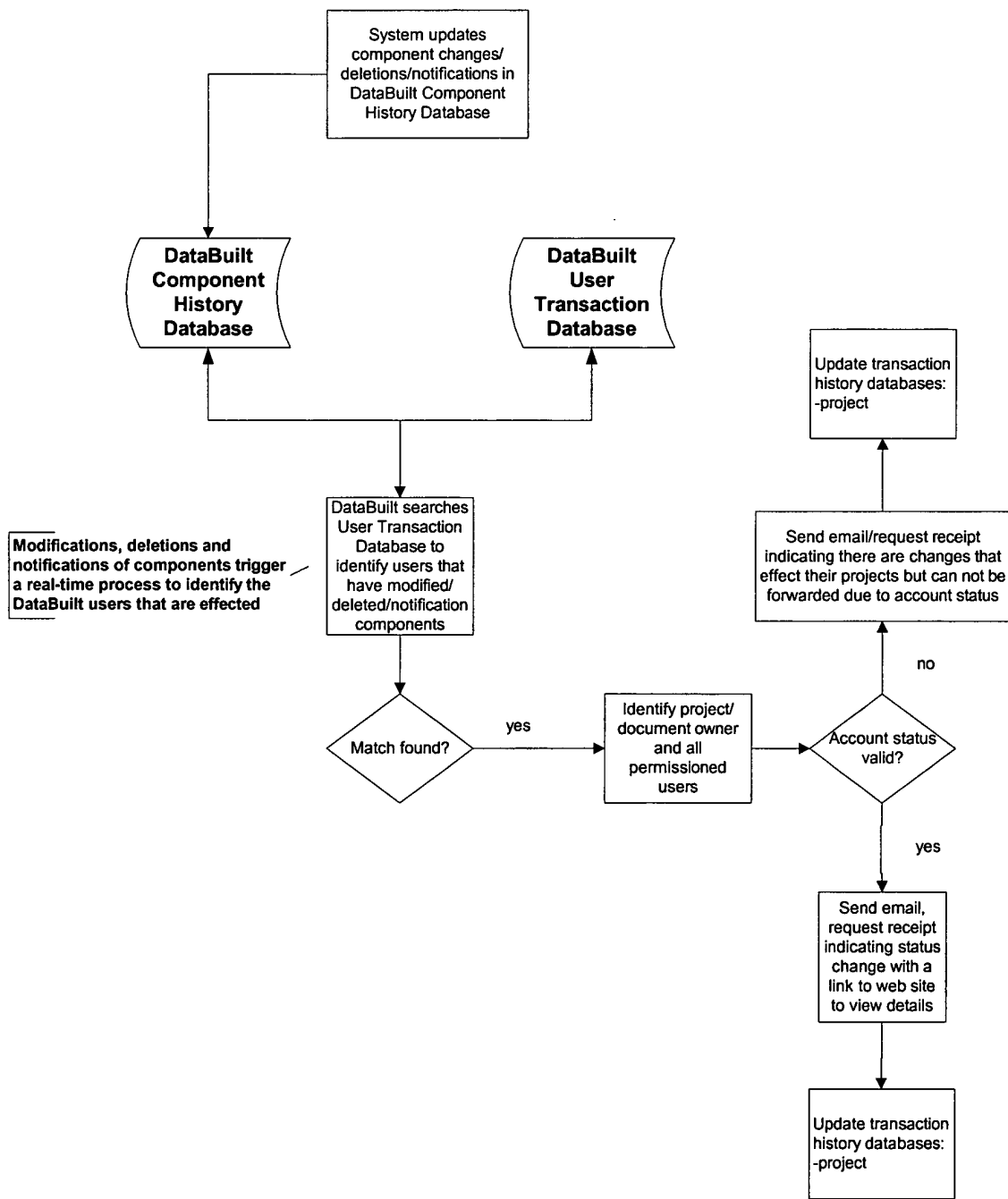
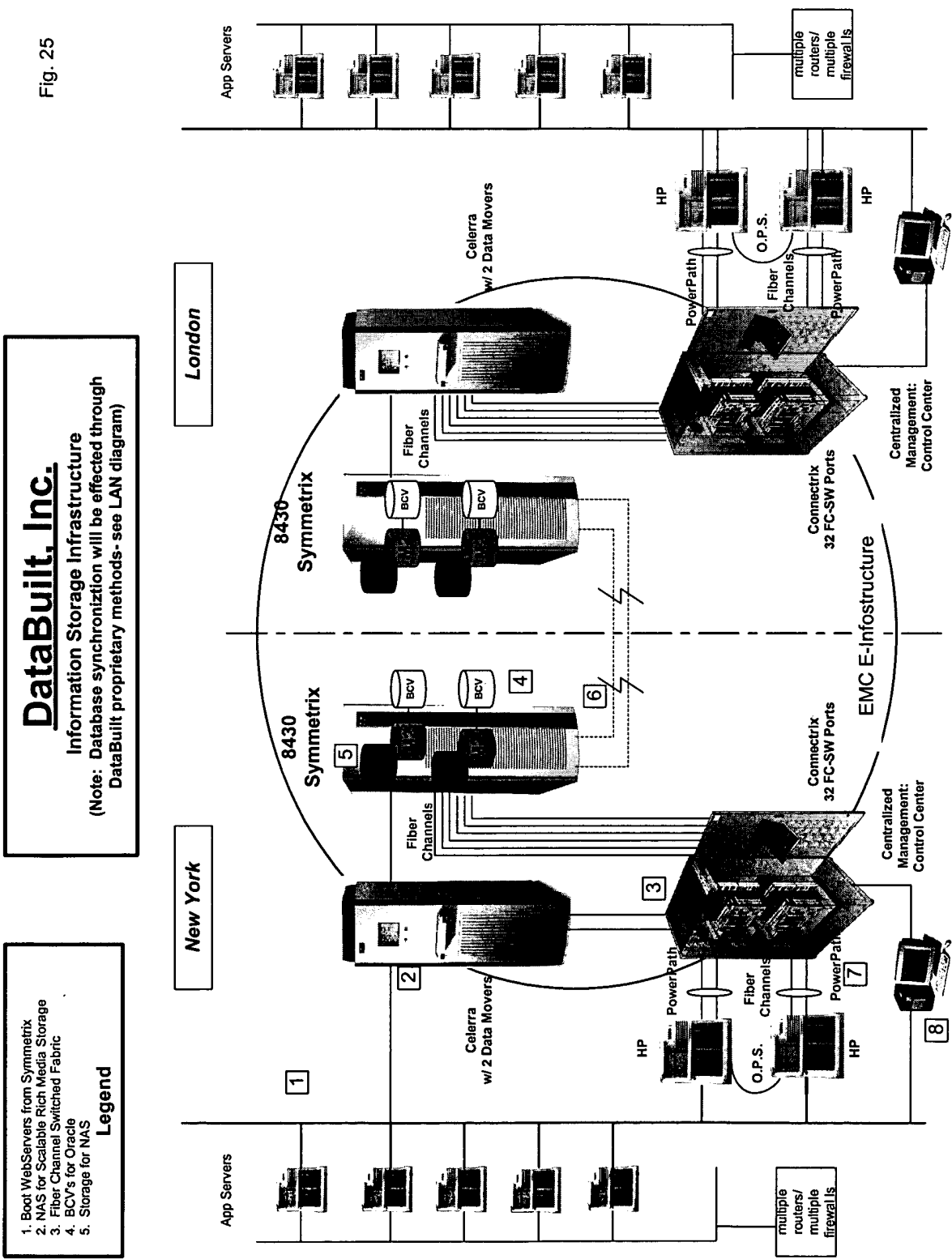
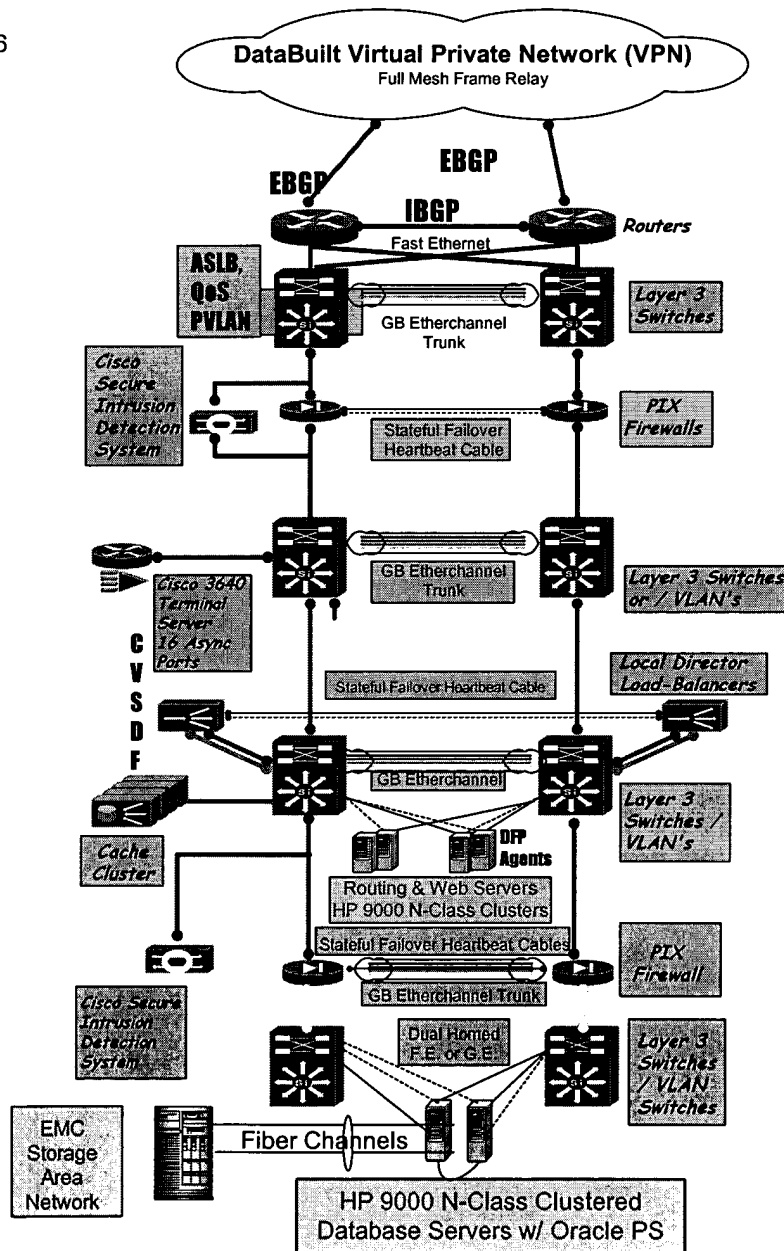


Fig. 25



DataBuilt Data Center

Fig. 26



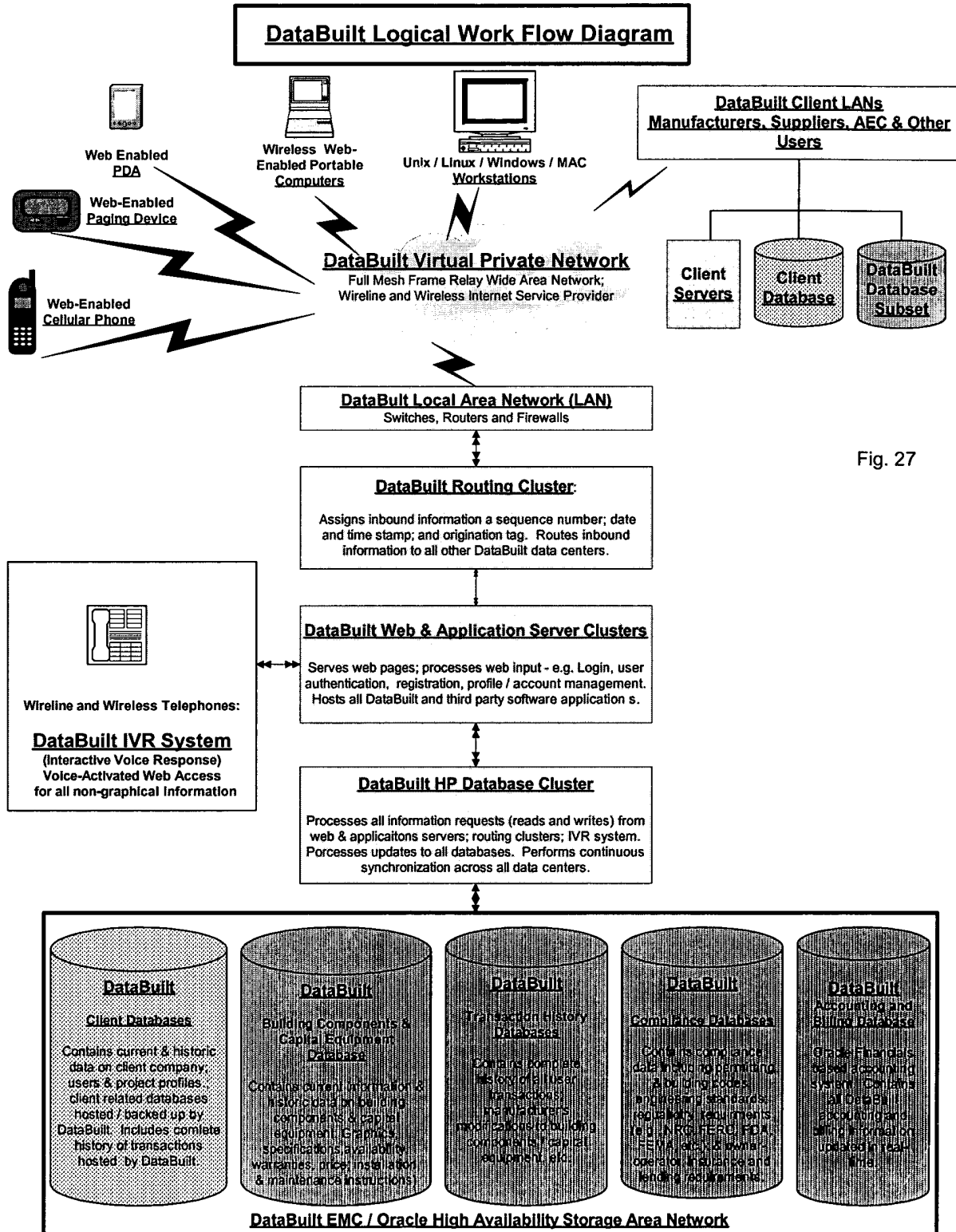


Fig. 27

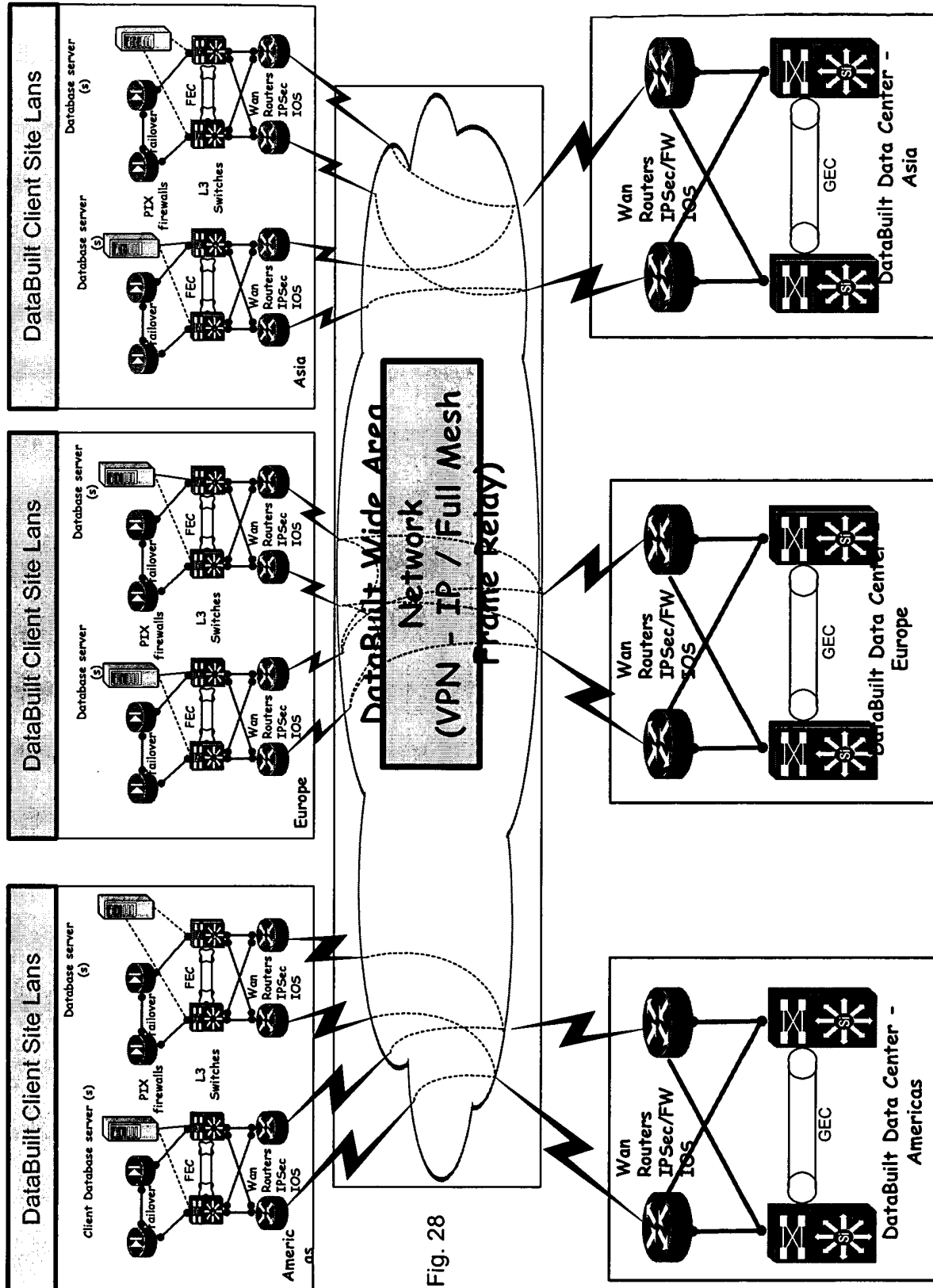


Fig. 28